

# International Conference on Ecological Sciences



sféologie 2016

24-28<sup>th</sup> OCTOBER  
Palais du Pharo, Marseille



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# WELCOME

## Bienvenue à Sfécologie2016, bienvenue à Marseille

Chers tous,

C'est un très grand plaisir pour la Société Française d'Ecologie de vous accueillir pour son congrès 2016 au cœur du vieux Marseille dans ce merveilleux cadre du Palais du Pharo. L'équipe de l'Institut Méditerranéen de Biodiversité & d'Ecologie (IMBE) a relevé le défi que constitue l'organisation d'un tel rassemblement avec grand talent et enthousiasme.

Nos collègues Marseillais et leur comité scientifique nous ont préparé un très beau programme de symposiums et de sessions regroupant plus de 800 présentations orales ou affichées, qui devrait satisfaire les appétits les plus voraces.

Viennent s'y ajouter, en amont, des journées à thèmes comme la journée sur les invasions biologiques et l'écologie chimique, et en post-congrès des sorties à caractère dans des haut-lieux naturels culturels et scientifiques de la Provence dont la réputation n'est plus à faire. Pour couronner le tout, ils vous invitent à une soirée partagée avec le grand public et intitulée « regards croisés », qui ne peut qu'exciter nos neurones. En effet, Pierre Henry Gouyon nous parlera « du bon usage de la Nature : l'écologie entre science et politique » et Christophe Bonneuil lui fera écho en discutant, lui, « du bon usage de la Science : l'écologie entre nature et politique ».

Mais bien sûr, ce congrès c'est aussi pour nous l'occasion de nous retrouver pour passer des rencontres virtuelles de notre quotidien au plaisir de nous retrouver et de nous côtoyer pour échanger dans une atmosphère chaleureuse et conviviale.

C'est pour nous l'occasion de parler science, découvertes et projets, l'occasion aussi de resserrer les liens entre membres de notre société savante. C'est aussi l'occasion d'encourager ceux qui ne l'ont pas encore fait de nous rejoindre<sup>1</sup> pour dessiner ensemble la Société Française d'Ecologie de demain et sa contribution à une société où l'écologie scientifique doit jouer un rôle plus important dans la compréhension et le respect de la nature et de ses limites.

Enfin, la SFE tient à remercier tous ceux qui ont permis la réalisation matérielle de cette rencontre par leur soutien financier et leur travail (comité d'organisation local et comité scientifique).

Vive Sfécologie2016 à Marseille et nous vous donnons d'ores et déjà rendez-vous pour Sfécologie2018 à Rennes !

**Jean-Louis Martin, Christophe Thebaud et Sébastien Barot**

Président et vice-présidents de la Société Française d'Ecologie

*Pour en savoir plus sur notre ligne politique*

[https://www.sfecologie.org/wp-content/uploads/2016/06/LP\\_SFE\\_2016\\_2020.pdf](https://www.sfecologie.org/wp-content/uploads/2016/06/LP_SFE_2016_2020.pdf)

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<sup>1</sup> <https://www.sfecologie.org/adherer/>

## Welcome to Sfécologie2016, welcome to Marseille

Dear all,

It is a great pleasure for the Société Française d'Ecologie to welcome you in Marseille for our Sfécologie2016 conference held in wonderful setting of the Pharo palace at the heart of historic Marseille.

The IMBE team took up, with great talent and enthusiasm, the challenging task of organizing such a gathering. Our colleagues from Marseille and the scientific committee have prepared an exciting program of symposia and sessions totalling over 800 oral or posted contributions. This should satisfy the wildest appetites.

It will be completed, ahead of the Congress, by special day long sessions such as the one on biological invasions, and after the Congress by field trips to some of the most renowned sites of Provence.

Finally they invite us to an evening session shared with the general public for two complementary and stimulating perspectives on the role of ecological science in society. Pierre Henry Gouyon will talk about the "Good use of Nature : ecology between science and politics" and Christophe Bonneuil will explore the "Good use of Politics: Ecology between Nature and Politics"(these talks will be given in French).

But, of course, this conference is also a wonderful opportunity to meet in the flesh, to enjoy being together and exchange in a convivial and warm atmosphere.

It is a fantastic opportunity to talk science, discoveries and projects, an opportunity to tighten the links among members of the Society. It is also a special moment to encourage other participants to join our Society to help continue shape a Société Française d'Ecologie that contributes to a society in which ecology plays an important role in the comprehension and the respect of Nature and its limits.

In closing, the SFE would like to thank all those that helped in making this Congress happen and especially the different sponsors and the organizing and scientific committees.

Long Live Sfécologie2016 in Marseille and looking forward to Sfécologie2018 in Rennes.



Jean-Louis MARTIN  
President of the Société  
Française d'Ecologie



Christophe THEBAUD  
Vice-president of the Société  
Française d'Ecologie



Sébastien BAROT  
Vice-president of the Société  
Française d'Ecologie



## Vers une écologie scientifique épanouie et concernée

L'écologie est avant tout une discipline scientifique, avec ses corpus théorique et méthodologique, ses spécialités et ses grands principes sans cesse revisités.

En ce sens, elle ne diffère pas des autres disciplines et génère de plus en plus de publications de haut niveau, qui vont des considérations les plus fondamentales jusqu'aux aspects très appliqués.

L'écologie peut être très théorique, et il est même indispensable d'avoir une production forte dans ce domaine, mais elle peut et doit être aussi très appliquée.

Dans le contexte actuel, les applications potentielles de l'écologie sont devenues de plus en plus nombreuses et de plus en plus urgentes. En effet, avec comme objet d'étude préférentiel « les interactions » au sens large, l'écologie apparaît comme LA science de la biodiversité, au delà des connaissances qu'elle produit dans la compréhension de la mise en place et de la dynamique du vivant, elle est en capacité de fournir les bases nécessaires à la préservation de cette biodiversité et le cadre pour le suivi de l'efficacité des modes de gestion de cette ressource essentielle.

Parallèlement, en s'orientant vers une dimension véritablement intégrative, voire globale, l'écologie a les moyens de se positionner désormais comme LA science du développement durable et, à en ce début de XXIème siècle, force est de reconnaître qu'elle est amenée à prendre une tout autre dimension, à jouer un rôle primordial pour la planète et surtout pour le bien être humain.

C'est donc avec un réel plaisir et un fort enthousiasme que l'IMBE a relevé le défi d'organiser ces journées de l'écologie scientifique, pour lesquelles l'ensemble des personnels, et plus particulièrement les organisateurs, se sont investis sans compter depuis 2 ans.

**Thierry Tatoni**

Directeur de l'IMBE

## Towards a fulfilling and relevant scientific ecology

Ecology is first of all a scientific discipline, with its body of theories and methods, and a constant renewal of its main specific fields and principles. In that regard, Ecology is not different from the other scientific disciplines and produces an increasing number of outstanding publications on both fundamental and applied grounds.

Ecology can produce highly theoretical works, which is essential, but Ecology can be -and even more- must be an applied science. Currently, practical applications of Ecology for the benefits of our societies have become more numerous and increasingly urgent. 'Interactions', sensu lato, are at the very heart of Ecology which makes it by definition THE science of Biodiversity. Beyond the knowledge of how Life has appeared and developed, Ecology can provide the basis for the preservation of Biodiversity and ensure its management is relevant and efficient into the future.

By being more integrative and global, Ecology could establish itself as the cornerstone of sustainable development. In this beginning of the 21st century, the influence of Ecology will inevitably grow and play a key role for Planet Earth and human well-being.

Sfécologie2016, an International Conference on ecological sciences would not have taken place without 2 years of hard work from the staff of my Institute (IMBE).

That is thus with a real pleasure that we welcome you today in Marseille.



Thierry TATONI  
IMBE Director



## Bonjour et bienvenue à Sfécologie2016 !

Sfécologie 2016, voilà nous y sommes... Enfin presque. Au moment d'écrire ces lignes, la dernière ligne droite est engagée et il nous tarde d'assister à la première conférence plénière ouvrant notre, ou plutôt votre Conférence Internationale Sfécologie.

Nous avons tout mis en œuvre pour que cet événement soit à la hauteur des attentes de toutes et tous, à commencer par la Société Française d'Ecologie. Nous avons tenu à rendre cette conférence accessible à tous, en gardant des tarifs modérés et pour cela l'organisation de la conférence a entièrement reposé sur les forces vives de notre institut, l'IMBE, et aucune mission n'a été sous-traitée. Cela a constitué un véritable défi pour nous depuis maintenant près de deux ans, et engendré quelques «galères»... d'autant plus que nous tenions également à maintenir un niveau d'exigence élevé en termes de prestations. Nous sommes aujourd'hui heureux d'avoir respecté ce principe.

Outre la production «écologique» (forcément !) et «locale» de cette conférence, nous avons également veillé à la parité homme-femme, chimère souvent recherchée mais rarement atteinte dans nos disciplines scientifiques. Pour vous en assurer, jetez un œil au trombinoscope de notre comité d'organisation, mais aussi aux conférences plénières, au comité scientifique, ou encore aux président(e)s des sessions auxquelles vous allez assister.

Profitions de cette tribune pour remercier chaleureusement chacun des membres de notre comité d'organisation ainsi que l'ensemble de nos soutiens scientifiques et financiers, sans qui cette aventure n'aurait pas été possible. Et nous remercions aussi toutes celles et ceux qui vont présenter leurs travaux de recherche lors de cette conférence. Avec Sfécologie2018, qui se tiendra à Rennes, faisons en sorte que cette conférence bisannuelle s'impose comme une évidence dans le calendrier de notre communauté.

En vous souhaitant une très bonne conférence, allons sans plus tarder assister aux quelques 900 communications scientifiques qui jalonnent ces trois journées !

**Cécile Albert & Alexandre Millon**

Présidente et vice-président du comité d'organisation



## Hello and welcome to Sfécologie2016!

Here we are, Sfécologie2016... well almost! While writing these lines, we are still in the rush for sorting out the last minute issues and we are (desperately) looking forward to attending the first plenary conference opening our, well rather your Sfécologie International Conference.

We did our best over the last two years to reach the expectations of the whole scientific community in ecology and in particular those of the Société Française d'Ecologie. Our main objective was to make this conference financially accessible to all. To achieve this, we took full advantage of the skills of colleagues working in our institute, IMBE (Institut Méditerranéen Biodiversité & Ecologie). And we did not outsource a single task... This has been quite of a challenge! But we are happy to have reached this objective.

Besides this, we paid a particular attention to gender balance. Have a look at the plenary speakers, at the composition of both the scientific and organization committees, at the chair(wo)men list, and see if you agree on this often stated – but rarely achieved - issue.

Eventually, this space is an opportunity for us to warmly thank all the people, either closely or loosely involved in the organization of this conference, as well as our partners and funding bodies. We also thank all the people who will present their work during Sfécologie2016.

We hope that with Sfécologie 2016 in Marseille and Sfécologie 2018 in Rennes, the bi-annual international conference of the Société Française d'Ecologie will become a recurrent event in the agenda of our scientific community.

Now, we just have to wish you a very pleasant conference, and let you go wandering around the Palais du Pharo to take your best of the almost 900 communications (either oral or poster) over these three days.

### **Cécile Albert & Alexandre Millon**

Chair and vice-chair of Sfécologie2016 organisation committee



Cécile ALBERT,  
CNRS Researcher



Alexandre MILLON,  
Associate professor, Aix-Marseille University



## LOCAL ORGANISERS



Cécile ALBERT,  
Chair, Researcher,  
CNRS



Didier AURELLE,  
Associate professor,  
Aix-Marseille  
University



Vanina  
BEAUCHAMPS-  
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Communication  
officer, CNRS



Marine BERRO,  
Project manager,  
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Associate professor,  
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Élise BUISSON,  
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Gabriela BOERI,  
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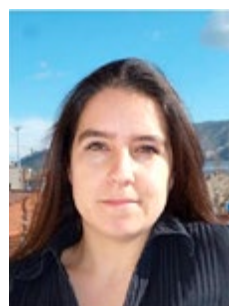
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Alexandre MILLON,  
Chair, Associate  
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Marseille University



Pascal MIRLEAU,  
Associate professor,  
Aix-Marseille  
University



Eric VIDAL, Senior  
researcher, IRD



## SCIENTIFIC COMMITTEE



**Xavier LAMBIN (chair), University of Aberdeen, Scotland, Population and conservation ecology**

- Didier AURELLE, IMBE-Aix-Marseille University, France, Marine ecology & population genetics
- Sébastien BAROT, IRD, IEES-Paris, France, Soil ecology & tropical ecology
- Elise BUISSON, IMBE-Avignon University, France, Restoration ecology & community ecology
- Nathalie CHARBONNEL, INRA-CBGP-Montpellier, France, Epidemiology
- Wolfgang CRAMER, IMBE-CNRS, France, Global ecology
- Julie DETER, Montpellier University-ISEM, France, Marine ecology & ecological indicators
- Bruno FADY, INRA-Avignon, France, Forest ecology & evolution
- Anne-Marie FARNET, IMBE-Aix-Marseille University, France, Microbial ecology
- Catherine FERNANDEZ, IMBE-Aix-Marseille University, France, Chemical Ecology
- Estelle FOREY, ECODIV, University of Rouen, France, Plant-soil interactions & functional traits
- Lorena GOMEZ APARICIO, CSIC-IRNAS-Sevilla, Spain, Forest decline & plant-soil feedback
- Benoit GOUSSEN, University of York, UK, Ecotoxicology
- Patrick GRILLAS, Tour du Valat-Camargue, France, Wetland conservation & plant ecology
- Frédéric GUITER, IMBE-Aix-Marseille University, France, Paleoecology
- Sue HARTLEY, University of York-President of the British Ecological Society, UK, Plant ecology
- Georges KUNSTLER, IRSTEA-Grenoble, France, Forest ecology & community ecology
- Isabelle LAFFONT-SCHWOB, IMBE-Aix-Marseille University, France, Phytoremediation
- Jean-François LE GAILLIARD, CNRS-CEREEP-ENS-Paris, France, Life history evolution
- François MASSOL, CNRS-University of Lille, France, Theoretical ecology & evolution
- Frédéric MEDAIL, IMBE-Aix-Marseille University, France, Biogeography
- David RENAULT, Univ. of Rennes-ECOBIO, France, Biological invasions & invertebrate physiology
- Clelia SIRAMI, INRA-Dynafor-Toulouse, France, Landscape ecology & agroecology
- Anna TRAVESET, IMEDEA (CSIC-UIB), Mallorca, Balearic Islands, Plant-animal mutualistic interactions
- Marion VALEIX, CNRS-LBBE-Lyon, France, Behavioural ecology & African mammals
- Frédérique VIARD, CNRS-Sb-Roscoff, France, Adaptation & Diversity in marine ecosystems

Web site :  
[ [www.seolane.eu](http://www.seolane.eu) ]



You are researcher, student,  
in ecological sciences  
or passionate about Nature?

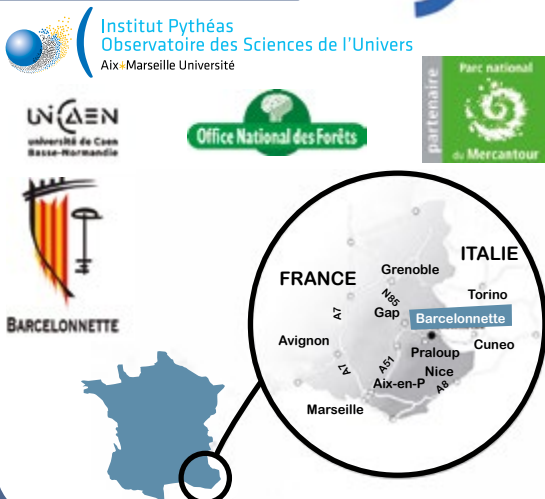
... the Centre Séolane is made for you

The **Centre Séolane** has been created for welcoming,  
accomodating and supporting

Perfect conditions for organizing

- **Scientists and students in ecology**
- **Wildlife managers**
- **Seminars, workshops, summerschools**
- **Field trips, experimentations *in natura***

Many partners



**CONTACT**  **CENTRE SEOLANE**

Quartier Craplet, 04400 BARCELONNETTE

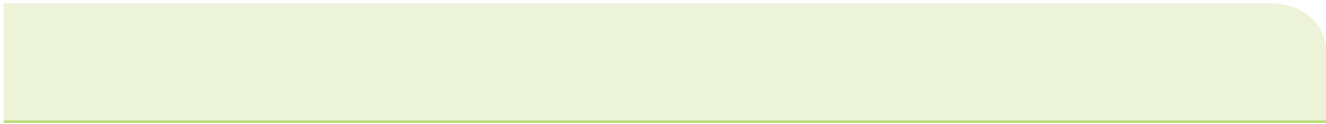
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# CONFERENCE OUTLINE

8	15	30	45	9	15	30	45	10	15	30	45	11	15	30	45	12	15	30	45	13	15	30	45	14			
Monday 24 Octobre																											
Side events & workshops (on invitation only)																											
Tuesday 25 Octobre																											
Registration & Coffee				Opening Ceremony & 1 <sup>st</sup> Plenary Lecture								Coffee break				9 Parallel Sessions								Lunch Break			
Wednesday 26 Octobre																											
				9 Parallel Sessions								Coffee break				9 Parallel Sessions								Lunch Break			
Thursday 27 Octobre																											
				4 <sup>th</sup> Plenary Lecture				Coffee break				9 Parallel Sessions								Lunch Break							
Friday 28 Octobre																											
				Field trips																							



15	30	45	15	30	45	16	15	30	45	17	15	30	45	18	15	30	45	19	15	30	45	20	15	30	45	21
Welcome & Registration																										
2 <sup>nd</sup> Plenary Lecture			9 Parallel Sessions									Poster Session & Mixing Event						Workshops								
3 <sup>rd</sup> Plenary Lecture			9 Parallel Sessions									Open Lecture														
5 <sup>th</sup> Plenary Lecture			9 Parallel Sessions									Poster Session & Mixing Event						Concert			Conference dinner - Terrasse du Pharo					





# ORAL SESSION OVERVIEW

	Tuesday 25 October		Wednesday 26
ROOMS	11:15 - 13:15	15:45 - 17:45	8:45 - 10:45
Room 92	Symposium Adapting forests to climate change	Symposium Evolutionary ecology of non-genetic inheritance and epigenetics	Symposium How can paleoecology inform conservation in a changing world?
Room 120	Symposium Biological invasions and their management: bridging ecological to sociological considerations	Biological invasions #1	Symposium Paradox of the Mediterranean basin: The BIODIVMEX program
Saint-Jean Room	Ecosystems functioning and dynamics #1	Ecosystems functioning and dynamics #2	Ecosystems functioning and dynamics #3
Lacydon Room	Genetics and molecular ecology #1	Global change #1	Biological invasions #2
Joliette Room	Soil ecology, biogeochemistry and plant-soil interactions #1	Soil ecology, biogeochemistry and plant-soil interactions #2	Landscape ecology
Grand large Room	Population and community ecology #1	Population and community ecology #2	Evolutionary ecology #1
Estaque Room	Behavioural ecology #1	Restoration ecology #1	Socio-ecosystems and ecological services #1
Pharo Auditorium	Agricultural ecology #1	Agricultural ecology #2	Ecophysiology
Gastaud Amphitheatre	Conservation biology, policies and management #1	Symposium Reciprocal benefits between practitioners, researchers and the biodiversity	Conservation biology, policies and management #2



**Wednesday 26 October**

**Thursday 27 October**

11:15 - 13:15	15:45 - 17:45	10:45 - 12:45	15:15 - 17:15
Behavioural ecology #2	Paleoecology	Networks and biotic interactions #1	Networks and biotic interactions #2
Symposium Ecological impacts of climate change in Polar Regions	Symposium Microbiota under omics spotlights	Symposium Chemical Mediation in Ecosystems	Chemical Mediation in Ecosystems
Ecosystems functioning and dynamics #4	Conservation biology, policies and management #3	Urban ecology	Symposium Ecological and biogeographical consequences of global change on insular biodiversity
Macro-ecology & biogeography #1	Global change #2	Macro-ecology & biogeography #2	Genetics and molecular ecology #2
Restoration ecology #2	Biological invasions #3	Parasites, pathogens and disease #1	
Evolutionary ecology #2	Population and community ecology #3	Evolutionary ecology #3	Parasites, pathogens and disease #2
Socio-ecosystems and ecological services #2	CESAB: Using our treasure trove of knowledge to confront complex ecological questions	Agricultural & Landscape ecology #4	Symposium Effects of semi-natural habitats on pest insects and natural enemies
	Agricultural ecology #3		
Symposium Advances in landscape ecology	Symposium Connectivity dynamics: patterns, processes, predictions	Symposium Conservation of biodiversity in the Mediterranean: how to link science and policy?	Conservation biology, policies and management #4





# SITE OVERVIEW

sfécologie 2016

## Site overview



Access to the conference exclusively from the right entrance

Access from the gate

# MAP LEVEL -1

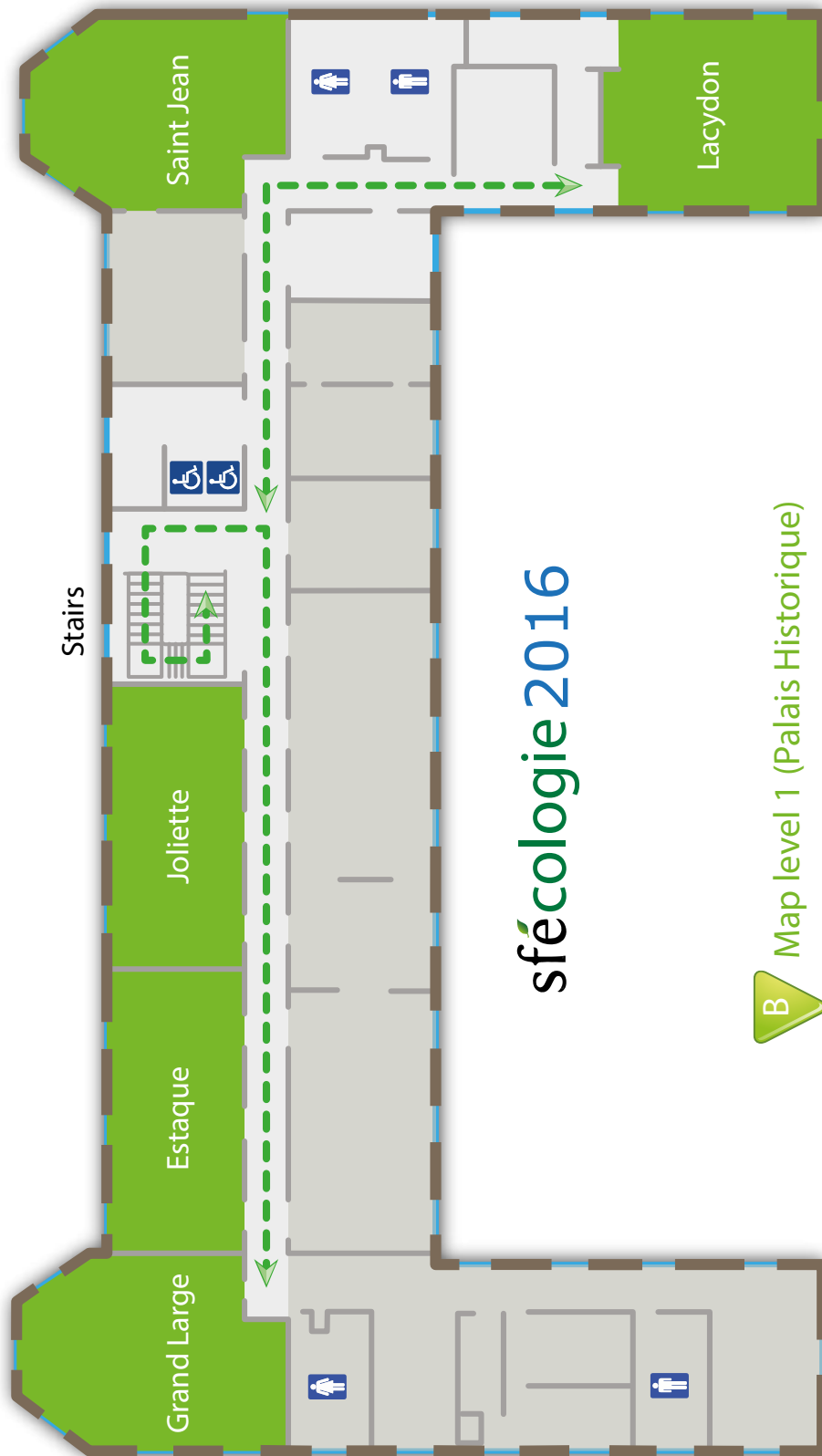


**A** sfécologie 2016  
Map level -1





# MAP LEVEL 1 (PALAIS HISTORIQUE)



sfécologie 2016



B Map level 1 (Palais Historique)

# PLENARY SPEAKERS



## E.J. MILNER-GULLAND

E.J. Milner-Gulland is Tasso Leventis Professor of Biodiversity in the Department of Zoology, University of Oxford, and leads the Interdisciplinary Centre for Conservation Science. Her research falls within three broad themes: Motivations of natural resource users; social-ecological system dynamics; management of natural resource use.

The first theme addresses the drivers of human behaviour, the second the feedbacks between behaviour and system dynamics, and the third the effects of interventions designed to alter behaviour and hence slow the rate of biodiversity loss.

She has a particular interest in the conservation ecology of the saiga antelope in Central Asia, the sustainable use of wild resources such as bushmeat, evaluating the social impacts of conservation, and improving the effectiveness of incentive-based mechanisms such as PES and biodiversity offsetting in the marine and terrestrial realms.

### **Understanding motivations as the key to addressing the illegal international trade in wildlife**

The illegal international trade in wildlife is now of major concern to governments as well as conservationists, with 46 governments signing up to the 2014 London Declaration committing to tackle the issue at the highest level. Disrupting the criminal trade networks through which wildlife flows is critical to reducing the flow of illegal wildlife, and is the province of law enforcement agencies. However, at each end of the chain are individuals whose actions may be influenceable by conservationists, whose motivations for hunting or consuming wildlife products need to be understood in order for interventions to be successful. In this talk I highlight new research, using methods from behavioural economics and marketing, which aims to tease apart the factors driving behaviour, and explore ways to change it. My first case study comes from Uganda, where we use indirect questioning methods, choice experiments and scenario analyses to explore the reasons behind decisions to hunt in protected areas. Here, bushmeat for local sale is the primary commodity, and products destined for international markets (like ivory) are generally opportunistic byproducts. Promising interventions to change behaviour include diverting existing benefit-sharing funding towards human wildlife conflict mitigation. At the other end of the chain, consumers in south-east Asia have diverse relationships with wildlife products, including as medicine and status symbols. Using a case study of ivory and rhino horn in Viet Nam, we explore how people relate to wildlife products as luxury goods, their emotional attachment to horn and ivory compared to other luxury products. In our sample, horn and ivory are viewed mostly with indifference and associated with wealth and men. I suggest how these approaches to exploring motivations can support the development of effective, well-targeted conservation interventions.





## Anna TRAVESET

Anna Traveset is a research professor based at the Mediterranean Institute of Advanced Studies (CSIC-UIB). Her research involves the study of plant-animal interactions in terrestrial ecosystems, especially island ecosystems. She works in different archipelagos, including the Balearics, the Canaries and the Galapagos, and is lately focused on the impacts of different types of disturbances on mutualistic interactions, specifically pollination and seed dispersal.

Biological invasions are currently one of the main threats to natural systems, particularly on islands, and their negative impact is amplified under the scenario of global change and globalization that our planet is experiencing. Ecologists have begun only in the last decade to evaluate the role of mutualisms in the structure of communities as well as the fragility of many mutualistic interactions. Specifically, the impacts of invasive species on native mutualisms are still poorly documented, although the data available so far indicate that they are very relevant and that they should be considered in any habitat restoration program.

In her talk, she will highlight the importance of incorporating positive interactions in the study of biological invasions and in the evaluation of their ecological and evolutionary impacts. She will show how the framework of complex ecological networks can help us understanding the mechanisms of alien species integration in the native communities as well as predicting species and interaction losses that might even lead to an extinction cascade in the invaded communities.

### **Mutualisms: drivers, and in turn victims, of biological invasions**

Mutualistic interactions play an important role maintaining biodiversity, structuring ecosystems and mediating their functioning. Such positive interactions, however, have begun to receive much attention relative to negative ones (e.g. competition, predation) only in the last decade. The persistence of many mutualisms is increasingly threatened by different drivers of global change, with still unknown ecological and evolutionary consequences. Particularly, the impacts of alien invasive species on native mutualisms are still poorly documented, although the data available so far indicate that they may be highly relevant, often leading to population declines, reduced biodiversity, and altered ecosystem functioning. In turn, positive interactions enhance the invasion of many alien species.

In my talk, I will go through the different mechanisms whereby mutualisms mediate invasions and are in turn influenced by invasions. I will focus on two main types of mutualisms (pollination and seed dispersal) and draw on examples mostly from Mediterranean ecosystems, and from both species and community - level studies, that show the possible demographic and genetic impacts of alien invasive species on native ones as well as the relevance of incorporating positive interactions in the study of biological invasions. I will also show how ecological networks provide a useful framework for predicting tipping points for community collapse in response to invasions and other synergistic drivers of global change.



## Purificación LOPEZ-GARCIA

Purificación Lopez-Garcia, Director of Research at the CNRS, is the leader of the team Ecologie Systématique Evolution, CNRS, Université Paris-Sud, Université Paris-Saclay, AgroParisTech, in Orsay.

Her centers of interest focus on the diversity, ecology and evolution of microorganisms belonging to the three domains of life (archaea, bacteria, eukaryotes).

### Microbial life through the lens of molecules

The seminal discovery that evolutionary information can be retrieved from the monomer sequence of biological macromolecules had a profound impact in biology. One of the most immediate and powerful applications was the possibility to establish a natural classification of all organisms by using the information contained in universal conserved gene markers. Carl Woese successfully developed this approach using small subunit (SSU) rRNA molecules as universal identity markers and leading to establish the first universal molecular phylogenetic trees (with the incidental discovery of the archaea). This so-called 'Woesian' revolution soon paved the way to yet another revolution, that of environmental microbiology. Microbiologists knew that only a tiny fraction of the microbial diversity in natural ecosystems was amenable to culture in the laboratory. Initial molecular analyses based on amplification, cloning and (Sanger) sequencing SSU rRNA genes from environmental samples led to the discovery of a wide diversity of novel lineages that have been densely populating universal phylogenetic trees ever since. The advent of high-throughput sequencing techniques making possible massive SSU rDNA metabarcoding and the direct sequencing of environmental community genomes (metagenomes) have only confirmed and amplified our initial suspicions that most biological diversity is microbial and that this diversity is far more extensive than we ever thought. In turn, enriching taxonomic sampling with novel environmental lineages is fundamental to help reconstructing the tree of life and unraveling past evolutionary history. High throughput molecular techniques allow sampling natural microbial communities at unprecedented levels, such that microbial ecology can now embrace classical ecological theory.



## Thierry DUTOIT

Thierry Dutoit is a research director at the National Center for Scientific Research (CNRS) and a member of the Mediterranean Institute of Biodiversity and Ecology. Before joining the CNRS in 2012, he was Professor at the University of Avignon. He has co-authored more than 200 publications, 70 of which appeared in international indexed journals. He has also co-authored 50 scientific book chapters in the field of plant community ecology and conservation sciences.

As a plant ecologist, the objectives of his research are mainly on assembly rules and species-coexistence in Mediterranean plant communities. He is particularly interested in the long-term recovery of Mediterranean grasslands after major disturbances in historical or recent times. Since 2000, he is particularly involved in concrete restoration projects of Mediterranean rangelands after agricultural or industrial degradations.

During his talk, he will present the last conceptual advances in restoration ecology. He will address in particular the present paradigm shift between a costly and active restoration of the biodiversity of old cultural ecosystems and the passive restoration of the naturalness of new ecosystems. Nevertheless, several examples will be used to show how recent advances in ecological engineering can link these two concepts.

### Release or restore ecosystems?

The strategy adopted by the European Commission in May 2011 aims to restore 15% of degraded ecosystems by 2020! Nevertheless, international recent meta-analyses have shown that it was not possible to restore the integrality of pre-existing ecosystems although many ecosystem services and biodiversity can be rehabilitated in comparison with degraded states. Facing the existence of ecologically and socio-economically irreversibility thresholds appeared recently the concept of «new-ecosystems» which are degraded ecosystems originated from former agricultural or industrial land uses but whose long-term evolution cannot be predicted because of the lack of historical references and the impacts of global changes. Should we then release nature in these ecosystems in the name of naturalness or rather still restore the former existing «cultural ecosystems» even incomplete in the name of biodiversity and ecosystem services?

Before the concept of «new ecosystem» will appear as a new paradigm that can be used as an alibi for the lack of restoration; it is then important to measure in the field their biodiversity, functionality and naturalness. We do that, in the plain of La Crau (Southeastern France) where several large scales restoration ecology projects have been realized in the last decade and allow us to compare the effects of different restoration strategies.





## François MASSOL

François Massol is a researcher at the CNRS in the team “Evolution & Ecology” of the unit “Evolution, Ecology and Paleontology” at the University of Lille (UMR 8198). His research covers the study of spatial dynamics of interspecific interactions and of diversification at intra- and inter-specific levels, mostly from a theoretical viewpoint.

More generally, he is interested in evolutionary ecology questions pertaining to species interaction networks, spatially structured ecological systems, and the diversity and stability of these systems. He also participates in interdisciplinary projects with researchers from mathematics, computer science, physics and social sciences, in particular on questions related to modelling and statistically analyzing contact and interaction networks.

### Networks of interactions in ecology

Interactions between individuals, populations or species are a central pillar of ecology: all organisms interact, in various forms, with others, and these interactions in turn define the functioning of ecosystems. The past twenty years have seen a tremendous surge of interest in assessing and quantifying such interactions using networks, with numerous empirical studies reporting food webs, plant-pollination, seed disperser, host-parasite, metapopulation, epidemiological contact and other types of networks, and almost as numerous methodological papers advocating the use of this or that network metrics to understand ecological patterns and processes. To the neophyte, the diversity of methods and metrics used can be both a boon and a curse as there is little guidance over which methods have proved their worth to tackle a particular question. My talk will skim through this vast amount of literature in an attempt to categorize methodological issues, ecological questions and modeling approaches that have been proposed to deal with questions arising from ecological networks. I will try and connect methods used to analyze empirical data with the latest advances from theoretical models, and thus identify gaps to bridge in the coming years. Finally, I will introduce methods that are more widely used in fields other than ecology and explain their potential usefulness for the study of ecological networks.

26 octobre 2016 18h15, Palais du Pharo, Marseille

# L'Écologie entre Science, Nature et Politique

Conférence-débat public

avec Pierre-Henri Gouyon  
professeur au Muséum d'Histoire Naturelle

& Christophe Bonneuil  
historien des Sciences au CNRS



Entrée libre sur inscription :

<http://conf-ecologie.imbe.fr/>

Contact : [sfecologie2016@imbe.fr](mailto:sfecologie2016@imbe.fr)

Une conférence de **sfécologie 2016**



# PUBLIC LECTURE

## Du bon usage de la Science : L'écologie entre nature et politique - P.H. Gouyon

La science peut se vivre comme fournissant aux humains une connaissance et une compréhension du monde qui les entoure ou comme engendrant du progrès technique et de la richesse. Selon la priorité accordée à ces deux facettes, la nature peut être traitée en sujet d'étude ou en ennemi à abattre. Témoin Buffon, naturaliste et industriel, écrivant au XVIIIème siècle que « La nature brute est hideuse et mourante ». La science ne cesse de nous présenter deux aspects opposés de la nature, parfois objet complexe et précieux, parfois jeu de Léo dont on peut à loisir changer les pièces.. On en parle ?

## Dire le bon usage de la nature : l'Écologie entre science et politique - C. Bonneuil

On a coutume d'opposer science et société, connaissance pure et demande sociale comme deux logiques en tension. Et les praticiens de l'écologie se vivent volontiers comme explorateurs d'un savoir fondamental qu'ils se doivent de vulgariser vers la société, notamment pour éclairer de meilleures politiques publiques de conservation (les praticiens de l'histoire ne se vivent-ils pas d'ailleurs –illusion nécessaire à l'enthousiasme de la quête de connaissance ?– de la même façon comme neutres et au-dessus d' « acteurs » dont la mémoire est à éduquer ?). Les choses se corsent quand il s'agit de décrire le bon état écologique d'un milieu ou de la planète, de dire le bon usage de la nature. De Buffon à Costanza, en passant par Haeckel et Odum, on esquissera quatre âges des discours et savoirs scientifiques sur le bon usage de la Terre, en montrant combien à chaque période, ils s'inscrivent dans un certain géopouvoir (ensemble de dispositifs et de représentations qui se donnent la terre entière comme objet de connaissance et comme objet de gouvernement). Matière à réflexion pour aujourd'hui à l'âge de la mondialisation financière et de la Grande accélération de l'Anthropocène ? Parlons-en ensemble



**Pierre-Henri GOUYON**

Pierre-Henri Gouyon est biologiste, ingénieur agronome, professeur au Muséum national d'histoire naturelle et à l'AgroParisTech et responsable de l'équipe de botanique du laboratoire « Origine, structure et évolution de la biodiversité » (CNRS/ Muséum national d'histoire naturelle). Très impliqué dans les débats concernant les relations science et société, il intervient notamment dans des conférences sur les questions ayant trait à l'évolution, à la génétique, à l'écologie et à la bioéthique.



**Christophe BONNEUIL**

Christophe Bonneuil est chercheur au centre Koyré depuis 1998. Après des études de biologie et d'histoire, sa thèse d'histoire des sciences portait sur «Mettre en ordre et discipliner les tropiques : Les sciences du végétal dans l'empire français, 1870-1940» (1997). Depuis, il s'intéresse plus largement aux sciences de la vie de la fin du XIXe siècle à aujourd'hui et aux transformations des rapports au vivant. Il vient de publier, avec Frédéric Thomas Gènes, pouvoirs et profits. Recherche publique et régimes de production des savoirs de Mendel aux OGM (Ed. Quae, 2009)

et prépare un manuel d'introduction au domaine « Science, Technologie et Société » (coll. Repères) ainsi qu'un ouvrage sur La biologie à l'épreuve de la controverse OGM. Il enseigne au Master Histoire des Sciences Techniques et Sociétés de l'EHESS depuis 1998.





# SYMPOSIA

Tuesday 25 October | 11:15-13:15

Tuesday 25 October | 15:45-17:45

## Adapting forests to climate change

### Principal organizers:

Bruno Fady, INRA  
Sylvie Oddou-Muratorio, INRA

Location : Room 92



## Evolutionary ecology of non-genetic inheritance and epigenetics

### Principal organizers:

Benoit Pujol, EDB-CNRS  
Christoph Grunau, IHPE-Université Perpignan  
Arnaud Sentis, EDB-Université Toulouse III

Location : Room 92



GDR Plas Phen

## Biological invasions and their management: bridging ecological to sociological considerations

### Principal organizers:

David Renault, ECOBIO  
Olivier Chabrierie, Université de Picardie Jules Verne  
Thomas Guillemaud, INRA-Nice  
Jacques Haury, AgroCampus Ouest, Rennes  
Marie Laure Desprez-Loustau, BIOGECO, Bordeaux  
Frédéric Simard, IRD

Location: Room 120

## Reciprocal benefits between practitioners, researchers and the Biodiversity: a review of successful collaborations linking science and wildlife management

### Principal organizers:

Aurélien Besnard, EPHE-CEFE-CNRS Montpellier  
Cédric Dentant, Parc National des Ecrins  
Alexandre Millon, IMBE -Aix Marseille Université  
Laurent Tatin, Réserve Naturelle Nationale des Coussouls de Crau-CEN PACA

Location: Gastaud Amphitheatre



Wednesday 26 October | 8:45-10:45

### How can paleoecology inform conservation in a changing world?

**Principal organizers:**

Stephen T. Jackson, University of Arizona  
Morteza Djamali, IMBE

**Location : Room 92**

### Paradox of the Mediterranean basin: an environment determined by heavy climatic and human factors, yet, with a remarkable biodiversity -The BIO-DIVMEX program

**Principal organizers:**

Virginie Baldy, IMBE  
Yildiz Thomas, CEFE

**Location: Room 120**



Wednesday 26 October | 11:15-13:15

### Ecological impacts of climate change in Polar Regions

**Principal organizers:**

Yan Ropert-Coudert, Institut Pluridisciplinaire  
Hubert Curien, IPHC, Strasbourg  
Marc Lebouvier , Station Biologique de Paim-  
pont  
David Renault, ECOBIO-Rennes

**Location: Room 120**



### Advances in landscape ecology

**Principal organizers:**

Benjamin Bergerot, ECOBIO-Rennes  
Françoise Burel, ECOBIO-Rennes  
Aude Ernoult, ECOBIO-Rennes  
Clélia Sirami, INRA-Toulouse

**Location: Gastaud Amphitheatre**





Wednesday 26 October | 15:45-17:45

Thursday 27 October | 10:45-12:45

### Microbiota under omics spotlights

**Principal organizers:**

Denis Faure, CNRS  
Jean-Christophe Simon, INRA  
Dominique Joly, CNRS

**Location: Room 120**



### Chemical Mediation in Ecosystems

**Principal organizers:**

Anne-Geneviève BAGNERES, CNRS  
Catherine FERNANDEZ, IMBE

**Location: Room 120**



### Connectivity dynamics: patterns, processes, predictions

**Principal organizers:**

Björn Reineking, Irstea  
Laurent Bergès, Irstea

**Location: Gastaud Amphitheatre**



### Conservation of biodiversity in the Mediterranean: How to link science and policy?

**Principal organizers:**

Grillas Patrick, Tour du Valat  
Wolfgang Cramer, IMBE

**Location: Gastaud Amphitheatre**

Thursday 27 October | 15:15-17:15

**Ecological and biogeographical consequences of global change on insular biodiversity**

**Principal organizers:**

Frédéric Médail, Aix-Marseille Univ./ IMBE

**Location: Saint-Jean Room**



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**Effects of semi-natural habitats on pest insects and natural enemies: the role of habitat quality and spatial distribution**

**Principal organizers:**

Claire Lavigne, INRA-Avignon

Armin Bischoff, IMBE

**Location: Estaque Room**





## SIDE EVENTS & WORKSHOPS

### Monday 24th October

Annual meeting of the 'Biological Invasions' GDR  
- Palais du Pharo (on invitation only)

Restitution session of the PEPS-CNRS initiative  
on Mangrove functioning - Palais du Pharo

### Tuesday 25th October

#### 10h45-11h15 - Salle 120

##### Early Career Program \ Coffee time with the plenary speaker

Interact directly with the plenary speaker, by asking him/her questions in a more informal environment than a big conference hall.



#### 13h30-14h30 - Salle 120

##### Early Career Program \ 'Midi publi'

Adam Wheeler - Wiley Publishing (40min) - Learn more about the publishing process and learn top tips to improve the quality of your manuscript, from abstract to conclusion, and to make it stand out. A large part of the session will be allocated to Q&As.

&  
Romain David, IMBE (15min) - Learn about Open Access, open data, data papers, data sensibility and property and the debate around it and why. Note that the talk about Open Access is aimed at presenting the concept and why it creates debate only.



### Tuesday 25th October

#### 13h30-14h30 - Auditorium

##### ERC (the European Research Council): Funding Opportunities in Europe for Creative Minds from Anywhere in the World

Ines Marin-Moreno - Learn more about ERC's funding schemes and some tips to prepare a good proposal



#### 18h30-20h00 - Salle 92

##### GDR PlasPhen and RTP3é & SFE Thematic Group: 'Genetic and non-genetic heredity'

Round table on genetic and epigenetic heredity



#### 18h30-20h00 - Auditorium

##### SFE Thematic Group: 'Agricultural ecology'

Discussion about the thematic group





## Tuesday 25th October

18h30-21h30 - Salle 120

### GASBI (Groupe d'échanges entre Aménageurs et Scientifiques autour de la Biodiversité et des Infrastructures)

Retours sur un projet de réseau où chercheurs et aménageurs se rencontrent pour parler biodiversité et infrastructures



## Wednesday 26th October

18h30 -20h00 - Salle Estaque

### CESAB (Centre for the synthesis and analysis of biodiversity)

Restitution workshop on CESAB funded projects with the PACA region



## Thursday 27th October

10h00-10h45 - Salle 120

### Early Career Program \ Coffee time with the plenary speaker

Interact directly with the plenary speaker, by asking him/her questions in a more informal environment than a big conference hall.



## Wednesday 26th October

13h15-14h15 - Salle 120

### Early Career Program \ 'Midi réseaux'

Meet other early career ecologists and networks that provide tools and activities for early career ecologists (ex: INNGE, Futur Earth, Salon de l'Ecologie, AFIE, SFE, ...)



13h15-14h15 - Auditorium

### SFE Thematic Group: 'Long-term studies in ecology'

Discussion about the thematic group





## Thursday 27th October

13h15-14h15 - Salle 120

### Early Career Program \ 'Midi SFE thematic groups'

Learn more about the thematic groups at the French Ecological Society (SFE), and how you can contribute.

This session will be facilitated to provide a maximum of space for discussion and for sharing ideas among all participants. Open to all ecologists. 1/ Presentation of thematic groups 2/ Discussion within groups 3/ Summary or highlights of each group discussion to all participants



13h15-14h15 - Auditorium

### SFE Thematic Group: 'Landscape ecology'

Discussion about the thematic group



## Thursday 27th October

17h15-18h30 - Salle

### Roundtable "Small Mediterranean Islands (PIM Initiative)" - Management and conservation of small Mediterranean islands: which interfaces between ecological sciences, humanities and land-managers?

This roundtable aims to compare the various perceptions of scientists in ecology and humanities, and land-managers interested by the thematic of conservation and management of Mediterranean small islands facing global change.

This roundtable will take place after the symposium «Ecological and biogeographical implications of global change on insular biodiversity».

It will be conducted by Fabrice Bernard (Delegate Europe & International Conservatoire du Littoral / PIM Initiative) and Frédéric Médail (Professor at the University of Aix-Marseille / IMBE).



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## Friday 28th October

Annual meeting of the 'Chemical ecology' GDR - AMU St Charles (on invitation only).

## FIELD TRIPS

The Sféologie2016 field trips are scheduled for Friday, October 28th, 2016. Except for the “Iles de Marseille”, all field trips will start at 08h30 in the centre of Marseille (either Saint Charles Central Station or Pharo Palace, will be announced at the beginning of the conference and on the web page) and arrival time back in Marseille will be at about 18h00. Due to the proximity the Frioul Islands trip starts at 09h30 and last until 17h00. Meeting point of this field trip is the landing stage of the old harbor (“Vieux Port”). A lunch package will be delivered at the beginning of the trip.

Please check weather conditions before and adapt your clothing. For most field trips hiking boots are highly recommended, for the Calanques trip they are required.

These field trips may be subject to changes (hours, organization, contents ...). Registered participants will be informed. In the case of cancellation due to insufficient participation another field trip will be suggested, or participants will be reimbursed.

### The Haute Provence : The Oak Observatory Research Station (O3HP) and the Luberon mountains (Thierry Gauquelin)

Two visits are planned during this day: the visit of the O3HP ( Oak Observatory at the OHP ») and the visit of the Organic Biodiversity House of the Luberon Natural Regional Park in Manosque.

O3HP (Oak Observatory at the OHP) consists of an experimental field site, situated at the research center of the Observatory of the Upper-Provence (OHP, UMS CNRS Pythéas) at Saint Michel l’Observatoire, close to Forqualquier in the Alpes of the Upper-Provence and devoted to the understanding of the functioning of Mediterranean forests in the light of their future evolution, Its concerns the Downy Oak forest, one of three major species of importance in the region of the French Mediterranean, and covers more then 250.000 ha in the Provence-Alpes-Cote-d’Azur (PACA) Region.

The O3HP is built-up of several elements installed in a 80-year old forest dominated by Downy Oak (*Quercus pubescens*) mixed with some Montpellier Maple (*Acer monspessulanum*) :

1. **Scaffolding** for canopy access, installed in a shape of a cross.

2. A **rain exclusion device** covering about half of the core plot (300 m<sup>2</sup>): The roof is opened and closed by retractable covers, intercepted rain is collected in an underground water reservoir. On the experimental plot, this allows to apply a precipitation scenario close to what models predict for the end of the 21st century, which means a reduction in annual rainfall of about 30% to 40%. The exclusion and the adjacent control plot can therefore be studied in terms of their biodiversity and ecosystem functioning in order to understand the impact of climate change for this type of Mediterranean ecosystem.

3. An environmental **sensing network** (atmospheric and soil temperature and humidity in the vertical profile, photosynthetically active and global radiation, precipitation, sap-flow, stem growth, etc.)

The O3HP has high scientific potential as its commonly used in a pluridisciplinary way by several local laboratories, and as it’s open to any scientific collaboration. This associates atmospheric physicians with astrophysicians, ecophysiologicals and ecologists, with strong interactions in between the staff of the OHP and the ones of the laboratories engaged in ecological or environ-





mental sciences such as the IMBE, CEREGE, CEA Cadarache.

In Manosque the Organic Biodiversity house (Thomassine Domain) offers an original and educational stroll through the extraordinary diversity of crops, including an orchard of over 400 varieties of fruit trees.

A permanent exhibition on the domestication of fruit and eight terraced gardens at the foot of a beautiful Provençal house, that will make you understand the millennial work of man to select and multiply the fruits adapted to the soils from wild plants.

### Mountain forests and open habitats of the “Mont Ventoux”

(Bruno Fady, Brigitte Talon)

Mount Ventoux, as well as large areas of the French Southern Alps, were the scene of large scale reforestation at the end of the 19<sup>th</sup> century and during the first half of the 20<sup>th</sup> century: soil erosion was successfully controlled and forests devastated by overexploitation and overgrazing were successfully restored. This restoration is moving into a second, dynamic phase as, for several decades now, Beech (*Fagus silvatica*) and Silver fir (*Abies alba*), which had remained within residual stands, are recolonizing the planted pine (*Pinus nigra*, *P. sylvestris*, *P. uncinata*) stands. The new, mostly heterogeneous and mixed stands which result from this “maturation process” form a complex landscape mosaic that opens interesting prospects for the sustainability of forest trees and their associated biodiversity. However, climate change constitutes a new, very real threat, of which consequences are already obvious on Mount Ventoux.

The challenge for foresters is to anticipate as much as possible these changes and to adjust

forest management to this evolution. Mount Ventoux is not only a MAB reserve and a Natura 2000 site, it is also a unique and original natural scientific laboratory. The current – and a short term unavoidable – forest decline in some areas requires a new approach to ecological restoration which will benefit from current research at INRA Avignon within the framework of international networks.

During this full day excursion, you will discover the various landscapes and vegetation types of the “Giant of Provence”, from its diverse forests at mid-elevation to its exceptional, endemic-rich, Alpine flora under its summit, 1,910 m above sea-level.

Hiking boots are recommended.

### The Calanques National Park: Nature conservation and plant ecology

(Arne Saatkamp, Daniel Pavon, Gabriel Nève)



This field trip will take you into the Calanques National Park, where we will hike from the coast to the peaks of the Massif de Marseilleveyre for discovering its terrestrial flora and fauna.

The Calanques NP is an important field site for

several research projects conducted by the IMBE on nature conservation, population dynamics, ecology and evolution of rare plants, the effect of pollution and community assemblies.

Hiking boots required.



### Field trip on the Frioul islands (Marseille)

(Frédéric Médail and Philippe Ponel)

The small islands (1–100 ha) and islets (less than 1 ha) represent the most common insular realm of the Mediterranean Basin which includes several thousands of islands. Compared to continent and larger islands, small insular communities and ecosystems are more sensitive to exogeneous disturbances and to environmental stochasticity, which often promotes rapid and contrasted dynamics.

This field trip will be devoted to discovery of a small Mediterranean archipelago close to Marseille, the Frioul Islands that includes two main islands, Ratonneau (95 ha) and Pomègues (89 ha), artificially connected since the 19th century. These rocky limestone islands are interesting from an ecological and conservation point of

view, with the existence of several unique species assemblages and rare salt-tolerant and thermophilous taxa of plants and insects.

Frioul islands house large seabird colonies (notably the yellow-legged gull, *Larus michaellis*) that exert specific disturbance with a high pressure on ecosystems by modifying patterns and dynamics of plant communities. The impact of seabirds on Mediterranean oligotrophic vegetation is therefore often severe, because of physical (trampling, pulling-up, soil erosion, burrowing) and chemical (soil manuring induced by guano rich in phosphorous and nitrogen compounds, salt deposition) disturbances. The effects of this large gull colony on the flora and vegetation were studied through the analysis of species turnover that have occurred in the past fifty years. Plant turnover appears to be positively linked to gull nesting density and it is inversely correlated to island area since small islets appear to be more affected than larger islands. Plants with the highest turnover rate were primarily ruderal, annual, wind-dispersed species, and with a large distribution.



*The western coast of Pomègues island (photo F. Médail / IMBE).*





## Ecology and restoration of Mediterranean steppe vegetation (La Crau)

(Thierry Dutoit)

The Nature Reserve of “Coussouls de Crau” (7400 ha) is one of the last xeric steppes of Europe. This species-rich vegetation hosts many steppic birds and some endemic arthropods. Its unique vegetation has been shaped over centuries by (1) the dry and windy Mediterranean climate (mean annual temperature 14°C; mean annual precipitation ~500 mm; >3,000 hours of sunshine per year and strong winds that blow on average 334 days annually), (2) very particular soil conditions: only about 40 cm deep and a 5 to 25m thick impermeable bedrock underneath. About 50% of the ground is covered by large stones and (3) at least two thousand years of sheep grazing. Today, almost 80% of the original area disappeared due to human activities (dump, military airport, cropping...).



For fifteen years, experiments have been conducted by the Mediterranean Institute of Biodiversity and Ecology to assess restoration techniques. For example, turf containing the living dominant perennial species (*Brachypodium retusum*) was transferred on a filled quarry to assess its effect on plant community assembly.

To mitigate future damages, an experiment was also carried out on an underground pipeline where soil was transferred to accelerate the establishment of steppe vegetation. An abandoned 350 ha orchard was rehabilitated in a steppe-like habitat: nurse species seeding, topsoil removal and translocation and hay transfer were assessed with the long-term objective to restore the steppe vegetation in term of species richness, structure and composition.

The field trip will focus on the original steppe ecosystem and on the experimental plots.

Hiking boots recommended.

# INFORMATION ON COMMUNICATIONS

## Oral presentations

There are three types of oral presentations :

- short presentation 6 min,
- standard presentation : 12 min + 3 min of questions, and
- symposium presentations (see details in the programme)

Please respect the allowed time: no more than 12 min for a standard communication. The chair(wo)man will indicate you when you have one minute speaking time remaining before you stop. For the presentations we accept the formats: Microsoft PowerPoint and PDF.

The rooms will be equipped with a projector and a laser pointer. You are not allowed to use your own laptop.

Check that your presentation works well before the session and upload it on the server at the entrance of the congress, if possible the day before your talk.

Please arrive at your session 15 minutes prior to the published start time. Before the start of your session, please make yourself known to your chair(wo)man and indicate how you would like to be introduced.

It is essential you have all authors' permission to give the presentation.

## Posters

The posters will be displayed in the exhibition hall, at the opposite of the main entrance.

Posters should be in PORTRAIT format with a maximum dimensions A0 (841mm wide and 1189mm tall).

Poster areas will be equipped with poster boards and material to hang your poster (clips).

You can hang up your posters from 8:00 am to 7:30 pm. They will be displayed according to the number found in the program. Volunteers will be there to help you. The poster sessions will take place on Tuesday and Thursday. They will allow you presenting your results and your presence is required. All posters should be removed at the end of the session and not after Thursday 8:00 pm.



## ORAL PRESENTATIONS: TUESDAY 25 OCTOBER

TUESDAY 25

9:30

**Plenary - Understanding motivations as the key to addressing the illegal international trade in wildlife - Eleanor Milner-Gulland**

Location: Auditorium

11:15

**Conservation biology, policies and management - Session #1**

Location: Gstaad Amphitheater

11:15 Mediterranean Marine Protected Areas: Do they work? - **Sylvaine Giakoumi**

11:30 A novel framework for the evaluation of Mediterranean Marine Protected Areas performance - **Claudia Scianna**

11:45 Marine Protected Areas: 4 years to reach the Aichi Target, but where are we at? - **Chloe Webster**

12:00 Coastal anthropogenic pressures explain the ecological decline of *Posidonia oceanica*: implications for management and conservation - **Julie Deter**

12:15 Fish nurseries: essential habitat availability and management across the Mediterranean - **Adrien Cheminée**

12:30 A comparison among coralligenous-based indices for the assessment of the marine ecological quality - **Giulia Gatti**

12:45 Updating knowledge on salmonids fertility using ultrasound imaging technology - **Guillaume Forget**

13:00 PROTEKER: Setting up of an underwater observatory at the Kerguelen Islands (Austral Ocean) - **Jean-Pierre Féral**

11:15

**Agricultural ecology - Session #1**

Location: Auditorium

11:15 A global trophic network collapse in intensive farmland landscapes? Lessons from 22 years biodiversity monitoring in a LTER study site - **Sabrina Gaba**

11:30 Mediterranean agro-ecosystems between tradition, industrialisation, and innovation. How do multifunctional mixed farming systems support agroecology and biodiversity? - **Alberte Bondeau**

11:45 Experimental assessment of insect pollination on rape seed yield in real field conditions demonstrates positive effect of wild bees - **Thomas Perrot**

12:00 Crop genetic diversity is associated with more efficient predation in wheat fields - **Emmanuelle Porcher**

12:15 How does earthworm functional diversity affect rapeseed-weeds interactions? - **Marine Zwicke**

12:30 intercropping promotes the ability of chickpea and durum wheat to facilitate phosphorus and nitrogen acquisition through root-induced processes in an alkaline N-deficient soil - **Latati Mourad**

12:45 Rice-growing and productivity to alleviate poverty in the face of climate change in Tonga (West-Cameroon) - **Christelle Tchiedadjo**

12:51 Productivity and uses of tree species in cocoa based agroforestry systems - **Veronique Ngagoum**

13:00 A model of social and environmental sustainability in the Amazonian forest - **Maria Lemoine**



13:06 Premières données sur le cycle biologique et la dynamique des populations du Psylle de l'olivier (*Euphyllura olivina* CSTA 1839, Hemiptera : Psyllidae) dans la région de Batna- Algérie. - **Smail Chafaa**

11:15

### Behavioural ecology - Session #1

Location: Estaque

11:15 Heritability of social information use: an experimental approach in a wild bird population - **Jennifer Morinay**

11:30 Do competition and predation risk affect weed seed selectivity in granivorous carabid beetles? - **Alice Charalabidis**

11:45 Melanin-based coloration reflects sex-specific investment in reproduction in wild brown trout - **Lisa Jacquin**

12:00 Desert amphibian selection of arid land breeding habitat may undermine reproductive effort - **Anja Kiesow**

12:15 Maternal traits and breeding success in the perspective of climate change: is the future of the Antarctic fur seal (*Arctocephalus gazella*) getting darker? - **Lauriane Massardier-Galata**

12:30 Linking individual foraging tactics, specialization and lifetime reproductive success in a Scopoli's shearwater population - **Nicolas Courbin**

12:45 Influence of intraguild interactions on large carnivore foraging strategies - **Marion Valeix**

13:00 Fatal shark attacks on humans : rather an individual behavioral problem than a collective ecological issue - **Eric Clua**

11:15

### Population and community ecology - Session #1

Location: Grand Large

11:15 On the path to extinction: climatic and anthropogenic drivers, buffering capacity and viability of a grey-headed albatross population. - **Deborah Pardo**

11:30 Long-term changes in field margin vegetation in North-western France - **Audrey Alignier**

11:45 Do good neighbors compensate for bad climate? The effect of density, evolutionary neighborhood and fungi on vulnerability of seedlings to climatic stress - **Andreas Prinzing**

12:00 Body size response to climate and net primary production: testing the explanatory power of environmental anomalies in temperate songbirds - **Nicolas Dubos**

12:15 Very high synchrony of survival between species for temperate songbirds: which climate contribution? - **Manon Ghislain**

12:30 Estimation of the tundra vegetation to environmental changes: The width of the spatial and time windows matters - **Saccone Patrick**

12:45 From individuals to populations: intraspecific competition breaks the temperature-size rule - **Thomas Tully**

13:00 Surface and subsurface invertebrate communities across a thermal gradient in a natural experiment in Icelandic streams - **Daniel Govoni**



11:15

**Soil ecology, biogeochemistry and plant-soil interactions - Session #1**

Location: Joliette

11:15 Distance from the sea as a driving force of microbial communities under water potential stresses in litters of two typical Mediterranean plant species - **Anne Marie Farnet Da Silva**

11:30 There is no place like home? The impact of climate change on the litter decomposition: a Mediterranean forest case study. - **Susana Pereira**

11:45 Consumer-resources interactions Driving Ecosystem processes in a Mediterranean specific rich rangeland in southern France - **Elena Kazakou**

12:00 Changes in carbon dioxide and methane fluxes in Sphagnum peat mesocosms invaded by vascular plants (*Molinia caerulea*) - **Fabien Leroy**

12:15 Nanoporous clay with interesting environmental properties: carbon sink and pesticides trapping - **Thierry Woignier**

12:30 Do tree species richness or identity affect fine root productivity and soil C and N levels? - **Alison Munson**

12:36 Interactions between earthworms and plants shape microbial communities of a constructed Technosol - **Thomas Lerch**

11:15

**Symposium - Adapting forests to climate change**

Location: Salle 92

11:15 Predicting the adaptive dynamics of tree populations under climate change: lessons from a Physio-Demo-Genetic simulation model - **Sylvie Oddou-Muratorio**

11:45 Using past climate change data and niche modeling to predict the past, modern and future distribution of Atlas cedar forests in Morocco - **Rachid Cheddadi**

12:00 Integrating economic constraints into the modelling of tree species distributions - **Jean-Sauveur Ay**

12:15 Disentangling direct and indirect effects of climate change on ecosystem productivity in European temperate forests - **Xavier Morin**

12:30 Adaptive Challenges for European Forests - **Joanne Fitzgerald**

12:45 Paradise burns: life-history evolution and future survival of serotinous tree species - **Alexander Kubisch**

13:00 Can we predict forest composition across space and time in Central Africa? - **Frédéric Mortier**

11:15

**Symposium - Biological invasions and their management: bridging ecological to sociological considerations**

Location: Salle 120

11:15 Eco-evolutionary dynamics of dispersal during biological invasions - **Dries Bonte**

11:35 Hydrological alteration and invasibility in Mediterranean streams - **Emili Garcia-Berthou**

11:55 Massive yet massively underestimated global costs of invasive insects - **Franck Courchamp**

12:15 Insights from evolutionary genetics of invasive species: introduction routes, bottlenecks and admixtures - **Eric Lombaert**

12:35 How people make sense of invasive species: values, attitudes and (shared) understandings - **Anke Fischer**

11:15

## Ecosystems functioning and dynamics - Session #1

Location: Saint Jean

- 11:15 Rainwater deficit affects litter mass loss and microbial decomposer communities in a Mediterranean forest - **Pascal Mirleau**
- 11:30 Increased leaf litter decomposition with increasing radionuclide contamination in the forests of the Chernobyl exclusion zone - **Jean-Marc Bonzom**
- 11:45 Data-paper: Long-term monitoring of benthic macrofauna in the Pertuis-Charentais (2004-2015) - **Anne S. Philippe**
- 12:00 Microbes living on marine plastic debris: the Tara Mediterranean expedition - **Claire Dussud**
- 12:15 Predicting effects of multiple environmental changes on community respiration in a microcosm experiment. - **Aurélie Garnier**
- 12:30 Grassland carbon and water fluxes under global changes: new insights from the Montpellier European Ecosystem - **Alexandru Milcu**
- 12:45 Interactions between green and brown food webs: consequences on ecosystem functioning and stability - **Elisa Thébault**
- 13:00 Structure et fonctionnement du microbiote des nuages - **Pierre Amato**

11:15

## Genetics and molecular ecology - Session #1

Location: Lacydon

- 11:15 Molecular ecology of the Mediterranean red coral in heterogeneous seascapes - **Marine Pratlong**

- 11:30 Multiscale analysis of the coral holobiont thermotolerance under contrasted thermal environment - **Kelly Brener Raffalli**

- 11:45 Deciphering the trophic plasticity of a critically endangered fish species (*Zingel asper* L.) by combining metabarcoding, prey availability and microhabitat data - **Emmanuel Corse**

- 12:00 New insights into the population genetics of partially clonal organisms: when seagrass data meet theoretical expectations - **Diane Bailleul**

- 12:15 Algal-bacterial interactions: a culture-dependent method to study acclimation of *Ectocarpus subulatus* to salinity - **Hetty Kleinjan**

- 12:30 Ecological reliability of eDNA metabarcoding approach for fish biodiversity survey in freshwater ecosystems: comparison to traditional sampling methods - **Raphaël Civade**

- 12:45 Metabarcoding-like diet assessment in carnivorous sponges. The case study of *Lycopodina hypogea* and ecological implications - **Pierre-Alexandre Rastorgueff**

- 13:00 pcadapt: an R package for performing genome scans for selection based on principal component analysis - **Eric Bazin**

- 13:06 Old origin of an endogenous retroviral protective copy in sheep. - **Tristan Cumer**

14:30

## Plenary - Mutualisms: drivers, and in turn victims, of biological invasions - Anna Traveset

Location: Auditorium



15:45

**Symposium - Reciprocal benefits between practitioners, researchers and the biodiversity**

Location: Gastaud Amphitheater

- 15:45 10 years on the interface between management and research. - **Aurélien Besnard**
- 16:00 Bringing together resource manager and academic expertise to survey the rare and elusive Pyrenean desman. - **Frank D'Amico**
- 16:15 Optimising invasive management short of eradication: Predicting settling rules by recolonising American mink post-culling. - **Xavier Lambin**
- 16:30 Managing ecosystems in the Arctic region - **Nigel Yoccoz**
- 16:45 Conservation and management of large carnivores in France: A successful and beneficial collaboration between ONCFS practitioners and CNRS researchers - **Olivier Gimenez**
- 17:00 Sentinel Alpine Pasture: combining scientific, technical and empirical knowledge for a collective management of adaptation to climate change. - **Baptiste Nettier**
- 17:15 A collaborative approach of Crau plain grasshopper conservation planning. - **Linda Bröder**
- 17:30 The role of scientific councils in bringing together researchers and practitioners: potentials and limitations - **Gaëlle Ronsin**

15:45

**Agricultural ecology - Session #2**

Location: Auditorium

- 15:45 Monitoring the consequences of the use of agro-chemicals on common biodiversity in French farmlands - **Alexandre Villers**
- 16:00 How can ecology help optimize mixtures of varieties in multifunctional agriculture? - **Sébastien Barot**
- 16:15 Temporal differentiation of soil biota communities and of trophic networks in response to arable crop management strategies - **Mickael Hedde**
- 16:30 Shifts in belowground interactions in a legume-cereal intercrop: a test of the Stress Gradient Hypothesis - **Simon Boudsocq**
- 16:45 Genetic Diversity of Oilseed Rape Fields and Feral Populations in the Context of Coexistence with GM crops - **Diane Bailleul**
- 17:00 Possibilités de substitution des moyens chimiques par une lutte biologique contre la cochenille blanche du palmier dattier *Parlatoria blanchardi* targ., 1868 (Homoptera, Diaspididae) dans les palmeraies de Biskra en Algérie. - **Ammar Achoura**

15:45

**Restoration ecology - Session #1**

Location: Estaque

- 15:45 Drivers of riparian plant community restoration after tree planting: role of plant succession and time-versus-space dispersal - **Bérenger Bourgeois**
- 16:00 Vegetation and entomofauna recolonisation and dynamics during restoration process of a former field after sowing and hay transfer - **Sébastien Gallet**

- 16:15 Ecological engineering for the reinforcement of *Astragalus tragacantha* populations in the Calanques National Park - **Lucie Miché**
- 16:30 Differentiation among populations of *Brachypodium retusum*: Consequences for the restoration of Mediterranean steppes. - **Christel Vidaller**
- 16:45 What do we know about subtropical and tropical old-growth grasslands resilience and restoration? - **Elise Buisson**
- 17:00 Modifier des perceptions, obstacle ou défi ? La flexibilité cognitive au service d'une restauration écologique plus adaptée - **Johnny Fenianos**

15:45

## Population and community ecology- Session #2

Location: Grand Large

- 15:45 Interactions between species traits explain population dynamics in stream fishes under climate change - **Mathieu Chevalier**
- 16:00 How shift in traits composition along climatic gradients emerge from the interplay of climate stress and competition? A theoretical model analysis in forests. - **Georges Kunstler**
- 16:15 Ecology, evolution and conservation of species with extreme life-histories: the emblematic Mediterranean red coral *Corallium rubrum* - **Ignasi Montero-Serra**
- 16:30 Risk reduction traits of Mediterranean temporary pool plants - **Arne Saatkamp**
- 16:45 Reproductive phenology: a key aspect of ecological strategies in Mediterranean populations of plant species - **Jules Segrestin**

- 17:00 Plant productivity-diversity relationships: a modeling approach to understand the influence of species pool structure - **Loïc Chalmandrier**
- 17:15 Is thyme a bouncer ? Analysing the effect of a facilitator on community assembly with presence-absence data. - **Fabien Laroche**
- 17:21 Observatoire des petits Mammifères Indicateurs des Changements Environnementaux, le cas du Delta du Sénégal : ObsMICE - **Ambroise Dalecky**
- 17:30 Avian diversity in Mt. Matutum Protected Landscape, Philippines - **Olga Nuneza**

15:45

## Soil ecology, biogeochemistry and plant-soil interactions - Session #2

Location: Joliette

- 15:45 Stabilization of soil aggregates along a plant community succession: indirect positive effects of root biomass and root heterogeneity - **Amandine Erktan**
- 16:00 Relationships between plant community functioning and soil carbon stocks based on a study of 30 permanent mowed grasslands over two French Regional Natural Parks - **So-lène Masson**
- 16:15 The role of plant traits, microbes and soil abiotic properties on ecosystem properties from grassland soils - **Nicolas Legay**
- 16:30 Plant-earthworm interaction : influence of age and proportion of casts in the soil on root morphology and nitrogen uptake by the plant - **Corinne Agapit**





- 16:45 Forest plant community as a driver of soil biodiversity: experimental evidence from collembolan assemblages through large-scale and long-term manipulation of tree canopy opening - **Ludovic Henneron**
- 17:00 Impact of wild ungulates on soil properties in temperate forests - **S  raphine Grellier**
- 17:15 Plant-microbes interactions in the rhizosphere of maize inoculated with *Azospirillum lipoferum* CRT1: implications for soil N-cycling microorganisms - **Alessandro Florio**
- 17:21 Plant litter mixture mitigates the negative effects of increased drought on soil biodiversity and litter decomposition process in Mediterranean forest - **Mathieu Santonja**
- 15:45  
**Global change - Session #1**  
Location: Lacydon
- 15:45 Influence of habitat matching on species range shift under climate change - **F  lix Pellerin**
- 16:00 Investigating the demogenetic responses of exploited Atlantic salmon (*Salmo salar*) populations to climate change - **Mathieu Buoro**
- 16:15 Modeling species present distribution and predicting the impacts of climate change in data-poor areas : an example from the Kerguelen Plateau. - **Charl  ne Guillaumot**
- 16:30 Temporal dynamics of assembly rules in stream fish communities - **Lucie Kuczynski**
- 16:45 Species range expansion constrains the ecological niches of resident butterflies. - **H  l  ne Audusseau**
- 17:00 How climate change modulates interactions between plants and soil fauna - **Matthieu Chauvat**
- 17:15 Applications of process-based phenological models in ecology and evolution: forecasting budburst date evolution due to climate change. - **Julie Gauzere**
- 17:30 Effects of anthropogenic pressures on morphological and phylogenetic diversity in french fish communities - **Jessica C  te**
- 17:36 Role of diversity on stability of forest ecosystems in context of global change. - **Marion Jourdan**
- 15:45  
**Symposium - Evolutionary ecology of non-genetic inheritance and epigenetics**  
Location: Salle 92
- 15:45 Recent developments in the field of nongenetic inheritance - **Etienne Danchin**
- 16:15 Population epigenomics in plants - **Frank Johannes**
- 16:45 Towards a role of DNA methylation in plant phenotypic plasticity - **St  phane Maury**
- 17:15 Understanding how the genome shapes the epigenome in plants - **Cl  mentine Vitte**
- 17:45 Inclusive inheritance and the extended evolutionary synthesis - **Kevin Laland**
- 15:45  
**Biological invasions - Session #1**  
Location: Salle 120
- 15:45 Simulating plant invasion dynamics in alpine ecosystems under climate change and land-use scenarios - **Marta Carboni**

- 16:00 Establishing ecological strategies to limit the expansion of *Reynoutria japonica*: effects on vegetation and soil restorations - **Alice Michelot-Antalik**
- 16:15 Globalization and the spread of invasive ants - **Cleo Bertelsmeier**
- 16:30 Commensal rodents in Southern Senegal, black rat and mouse invasion zone - **Odile Fossati**
- 16:45 Predicting how altering propagule pressure changes establishment rates of exotic ant species in North America - **Olivier Blight**
- 17:00 Impact de *Gambusia holbrookii* sur la structure et le fonctionnement des mares temporaires de la Numidie orientale - **Dalal Haiahem**
- 17:06 Colonization does not necessary mean Invasion - **Anne Charpentier**
- 17:15 Introduction and dispersal of an American termite in Paris - **Guillaume Baudouin**
- 17:21 Assessing relationships between invasive and native fish species in marine protected areas across the Mediterranean Sea - **Sylvaine Giakoumi**
- 16:30 Characterizing meta-ecosystems: feeding data into the theory - **Isabelle Gounand**
- 16:45 Variability and structural stability of ecosystems: two sides of the same coin - **Jean-Francois Arnoldi**
- 17:00 Maximization of functional diversity and ecosystem multifunctionality in global drylands - **Yoann Le Bagousse-Pinguet**
- 17:15 Invertebrate diversity in Icelandic freshwater springs - **Agnes-Katharina Kreiling**
- 17:30 Assessing interactive effects of nutrients and temperature on headwater ecosystem functioning: a correlative approach along natural gradients - **Jeremy Jabiol**
- 17:36 Modulation of interactions between bramble thicket and oak seedlings by stress (light, water and simulated browsing) - **Lisa Laurent**

15:45

## Ecosystems functioning and dynamics - Session #2

Location: Saint Jean

- 15:45 N-dimensional hypervolumes to study stability of complex ecosystems under environmental change - **Ceres Barros**
- 16:00 Granger causality: a tool to explain causal links between ecosystem components? - **Frederic Barraquand**
- 16:15 Spatial scaling of biodiversity and ecosystem stability with a simple model - **Robin Delsol**





## ORAL PRESENTATIONS: WEDNESDAY 26 OCTOBER

8:45

### Socio-ecosystems and ecological services - Session #1

Location: Estaque

8:45 Biodiversity and wildlife tourism in Southern Africa: a cultural ecosystem service assessment - **Ugo Arbieu**

9:00 Developing an integrative multi-scale approach of regional agriculture to support the assessment of pest regulation service delivered by farmland biodiversity - **Annick Gibon**

9:15 Why urban poor exposed to climate change in coastal Bangladesh are more concerned about ecosystem disservices than services? - **Md Mustafa Saroar**

9:30 Operationalizing safe operating space for regional social-ecological system - **Md Sarwar Sohel**

9:45 From long-term monitoring of biodiversity and evaluation of ecosystem functioning to stakeholders viewpoint and ecosystem services provisioning: field socio-ecological experiments in a French LTSER - **Vincent Bretagnolle**

10:00 Household Fuel Use in Rural China - **Christophe Muller**

10:06 Citizen science and identification keys to study the perception of natural organisms - **Mathilde Delaunay**

8:45

### Symposium - How can paleoecology inform conservation in a changing world?

Location: Salle 92

8:45 One past, many futures: using history to inform climate-change adaptation - **Stephen Jackson**

9:05 Applying paleoenvironmental records to critical problems in natural resource management - **Stephen Gray**

9:25 Could the Pleistocene history of *Taxus baccata* explain its present distribution? By PasDETabac working group. - **Jacques-Louis De Beaulieu**

9:45 Raptors, rodents, and conservation paleobiology: using skeletal remains to track the development of an energetically novel ecosystem in the Great Basin desert of North America - **Rebecca C. Terry**

10:05 Transboundary environmental flows to the Colorado River Delta: When the past matters and when it doesn't - **Karl Flessa**

10:25 Historical Ecology: If the Past Teaches, what does the Future Learn? - **Carole Crumley**

8:45

### Symposium - Paradox of the Mediterranean basin: The BIODIVMEX program

Location: Salle 120

8:45 The functional ecology of arable weeds: Reconstructing prehistoric farming practices through comparison with present-day 'traditional' agrosystems - **Amy Bogaard**

9:15 Connectivity and fragmentation in the Mediterranean - How are mosaics of diversity (at gene, species and community levels) connected in the socio-ecological systems of the Mediterranean? - **Christophe Lejeune**

9:45 Assessing the vulnerability and the socio-ecological resilience of biodiversity and functioning of terrestrial and marine Mediterranean ecosystems - **Charles-François Boudouresque**



- 10:00 Mediterranean biodiversity and ecosystem services values. - **Pierre Bateau**
- 10:15 Bio and Agro-diversity of Past and Present Mediterranean Landscapes - **Ilham Bentaleb**
- 10:30 Chemical ecology as an important aspect of biodiversity and ecosystem functioning in marine planktonic environments - **Adrianna Ianora**

8:45

### Ecosystems functioning and dynamics - Session #3

Location: Saint Jean

- 8:45 Plant diversity and functioning of a Mediterranean shrubland under drier conditions - **Natalia Rodriguez-Ramirez**
- 9:00 Local vs. global drivers of vegetation changes in the herb layer of a temperate forest over the last four decades - **Deborah Closset-Kopp**
- 9:15 Effects of dry period length and vegetation on organic matter decomposition in vernal pools - **Pauline Hervé**
- 9:30 Ecophysiological modelling of tree primary production and carbon allocation in a Canadian boreal region - **Fabio Gennaretti**
- 9:45 Change in growth patterns preceding tree mortality: synthesis from a new global ring-width database - **Maxime Cailleret**
- 10:00 Understanding the effect of warming temperatures on spring phenology of trees in the Alps using data from a citizen science program - **Daphné Asse**
- 10:15 Mangrove ecosystem functioning and dynamics: response to a long-term disturbance by a domestic wastewater discharge - **Cécile Capdeville**

- 10:30 Diversité du peuplement entomologique sur *Juniperus communis* ssp. *hemisphaerica* & *Juniperus oxycedrus* ssp. *rufescens* de la forêt de Tigounatine (Tikjda, Djurdjura sud). - **Razika Abbassen**
- 10:36 Epibenthic macroinvertebrate diversity in relation to local ecology in groundwater-fed lava caves in North East Iceland. - **Doriane Combout**

8:45

### Biological invasions - Session #2

Location: Lacydon

- 8:45 Worldwide invasion by *Ulex europaeus*: a history of ecology, evolution and sociology. - **Anne Atlan**
- 9:00 The threat is not over yet: towards a model of future distribution of an invasive species under global change - **Laëtitia Buisson**
- 9:15 Why are invasive alien species still legal? - **Elsa Bonnaud**
- 9:30 Tritrophic interactions between host plant, phytophagous and entomophagous insects: the case of the invasive species, *Drosophila suzukii*. - **Patricia Gibert**
- 9:45 Feral cat population on large and inhabited island: efficiency of small scale control - **Pauline Palmas**
- 10:00 Novel prediction of Asian Hornet invasion range and impact - **Alice Fournier**
- 10:15 Invasive Water Primroses in France become a weed problem in meadows - **Jacques Haury**
- 10:21 Eradication of the Black Rat, *Rattus rattus*, and biodiversity monitoring in the French Mediterranean islands : the case study of Riou Archipelago in the Calanques national Park - **Mathilde Meheut**



- 10:30 Adaptation of the water primroses *Ludwigia grandiflora* to terrestrial condition - **Dominique Barloy**
- 10:36 Ancient versus recent invasion: two genetic signatures in colonization history of a freshwater selfing snail *Galba cubensis* - **Manon Lounnas**

8:45

### Ecophysiology

Location: Auditorium

- 8:45 The importance of egg size for variation in metabolism, growth and behaviour of individuals in a polymorphic fish - **Louise Vernier**
- 9:00 Response of a cold-water-adapted species, the arctic charr *Salvelinus alpinus*, to thermal changes : an ecophysiological perspective - **Lisandrina Mari**
- 9:15 Hungry for nutrients in heterogeneous environments: Nutrient temporal variance and covariance effects on the performance of nutritionally co-limited individuals. - **Apostolos-Manuel Koussoroplis**
- 9:30 Warming tolerance across insect ontogeny: influence of joint shifts in microclimates and thermal limits - **Sylvain Pincebourde**
- 9:45 Energyscapes and prey fields shape little auk wintering hotspots under climate change - **Françoise Amélineau**
- 10:00 Predicting hydrological affinities of herbaceous species from their functional traits ,À Linking physiological and morpho-anatomical traits - **Michaël Belluau**
- 10:15 Genotoxicity tests on mouse embryos : a model to assess environmental impact on reproduction - **Lucie Rolland**

10:21 The human PIG-A assay : a new tool for environmental mutagenesis assessment - **Pierre Castel**

10:30 Functional trajectories and current impairments of trees in the case of a long term decline: the study of beech in Fontainebleau forest. - **Elena Granda**

10:36 Tritiated and non tritiated ITER-like tungsten particles: from synthesis to genotoxicity - **Thierry Orsière**

8:45

### Conservation biology, policies and management - Session #2

Location: Gastaud Amphitheater

- 8:45 Reintroductions in Europe : Phylogenetic and Functional Representativeness of Translocated Species - **Charles Thevenin**
- 9:00 Behavioural and ecophysiological responses of Hermann's tortoise (*Testudo hermanni hermanni*) to translocation - **Fabien Pille**
- 9:15 Roads and bats: use of existing garteries for the restoration of ecological connectivity. - **Fabien Claireau**
- 9:30 The habitat value of power line rights-of-way for wild bees in rural woody landscapes - **Violette Le Féon**
- 9:45 An indicator of the pollination service at a local scale based on crop pollinator dependence - **Gabrielle Martin**
- 10:00 Terrestrial biodiversity loss in Norway due to hydropower production: A life cycle assesment approach - **Martin Dorber**
- 10:15 Recent trends in the distribution of butterflies and dragonflies in Western Europe - **Gaël Delpon**

- 10:30 Why and how include land use change modelling in regional land planning? Example from a French Mediterranean Region - **Mathilde Hervé**
- 10:36 Vers une approche globale de la structuration écologique des zones humides dans un contexte industriel - **Alain Thiéry**

8:45

**Evolutionary ecology - Session #1**

Location: Grand Large

- 8:45 Bridging the gap between evolutionary and conservation biology: Post-glacial range expansion shapes the spatial genetic structure of a habitat forming octocoral - **Jean-Baptiste Ledoux**
- 9:00 How can Eco Evo Devo studies on sponges help us to understand the effect of pollutants on both marine biodiversity and human health? - **Emmanuelle Renard**
- 9:15 High number of small populations as a tool to study evolutionary and ecological processes of diversification: insight from Arctic charr in lava caves - **Camille Leblanc**
- 9:30 Importance of plasticity for divergence of threespine stickleback (*Gasterosteus aculeatus*) in the dynamic Lake M\_vatn, Iceland - **Coralie Delarue**
- 9:45 The importance of ecology, evolution and development in shaping biodiversity of threespine stickleback: Long term monitoring in the dynamic Lake M\_vatn Iceland - **Bjarni Kristofer Kristjansson**
- 10:00 Resource allocation trade-offs and senescence may explain the temperature-size rule in aquatic organisms - **Ayala Loisel**

- 10:15 Environmental and spatial effects on the determination of shell traits of the common whelk (*Buccinum undatum* L.) - **Hildur Magnúsdóttir**

- 10:30 Offspring reaction norms shaped by parental environment: transgenerational plasticity of inducible defenses - **Emilien Luquet**

- 10:36 The evolution of individual diversification: can egg size variation facilitate the rapid evolution of resource polymorphism in fishes? - **Samantha Victoria Beck**

8:45

**Landscape ecology - Session #1**

Location: Joliette

- 8:45 When landscape ecology supports ecosystem services bundles' spatialisation - **Leita Tschanz**
- 9:00 Taking into account a distance decay of the landscape effect when modelling ecological responses - **Paul Miguét**
- 9:15 How prioritize habitat patches for conserving landscape connectivity? Use of least-cost versus resistance distances in graph models - **Catherine Avon**
- 9:30 Inconsistent spatial scale in species-landscape relationships: a case study with flower-visitors - **Martin Jeanmougin**
- 9:45 Metapopulation dynamics and meta-community assembly in the freshwater snails of Guadeloupe - **Jelena Pantel**
- 10:00 Is there a link between *Posidonia oceanica* spatial configuration and coastal anthropogenic pressures? - **Adrien Inacio**



- 10:15 Elemental fingerprinting may help studying connectivity in the invasive gastropod *Crepidula fornicata* - **Thierry Comtet**
- 10:21 Incorporating lakes in stream fish habitat models: are we missing a key landscape attribute? - **Marc Pépino**
- 10:30 Are stormwater ponds partitioning measures effective and relevant for amphibians? - **Jonathan Jumeau**
- 10:36 Effect of the spatial distribution of resources in experimental minilandscapes on the fitness of two populations of *Trichogramma cacoeciae*. - **Victor Burte**
- 11:15  
**Behavioural ecology - Session #2**  
Location: Salle 92
- 11:15 Fitness consequences of personality convergence between partners of convict cichlid - **Chloé Laubu**
- 11:30 Revealing partial migration in African elephants - **Simon Chamaille**
- 11:45 Factors influencing female dispersal patterns in Western lowland gorillas - **Alice Baudouin**
- 12:00 Decision-making on space use negates dilution effect on vigilance - **Rémi Patin**
- 12:15 Strong seasonal and inter-annual fidelity in foraging areas of a mobile marine top predator, the grey seal - **Cecile Vincent**
- 12:30 Extra pair copulation drives the evolution of sex-biased dispersal. - **Thomas Brom**
- 12:45 Swimming speeds of Mediterranean settlement-stage fish larvae nuance Hjort's aberrant drift hypothesis - **Jean-Olivier Irisson**
- 13:00 Feeding habits of two shark species *Scyliorhinus canicula* (Linnaeus, 1758) and *Galeus melastomus* (Rafinesque, 1810) in the Western Algerian coasts - **Ahlem Amina Taleb Bendiab**
- 13:06 Seabirds and fisheries: a modern toolbox to study an ancient relationship facing new challenges. - **Tangi Le Bot**
- 11:15  
**Symposium - Ecological impacts of climate change in Polar Regions**  
Location: Salle 120
- 11:15 Ecoregionalisation of the Southern Ocean and the robustness of species distribution models in the context of climate change - **Thomas Saucède**
- 11:35 Arctic seabirds versus climate change: a scientific Epos across the North Atlantic - **David Grémillet**
- 11:55 Spatial ecotoxicology under climate change: Tracking mercury contamination across Arctic marine food webs - **Jerome Fort**
- 12:15 The implications of climate change for native insects and insect invasion potential at the subantarctic islands - **David Renault**
- 12:35 Mitochondrial phenotypic flexibility in king penguins: influence of nutritional status and marine life. - **Damien Roussel**
- 12:55 Host-parasite systems in polar areas as models to explore inter-specific dynamics in spatial contexts - **Thierry Boulinier**

11:15

## Ecosystems functioning and dynamics - Session #4

Location: Saint Jean

- 11:15 Decode the sentinels' signals: how watersheds influence the functioning of high alpine lakes - **Coralie Jacquemin**
- 11:30 Sentinel lakes: a network for the study and management of mountain lakes in the French Alps - **Carole Birck**
- 11:45 The PLANAQUA platform: a cutting-edge experimental infrastructure for multi-scale studies on aquatic ecosystems - **Sarah Fiorini**
- 12:00 Dike fields connectivity and diversity: a complex functioning on the Rhone River - **Maxine Thorel**
- 12:15 Ultimate colimitation of oceanic primary production - **Anne-Sophie Augères**
- 12:30 Is litter decomposition driven by biomass-ratio or functional diversity ? - **Anne Bonis**
- 12:36 Phenotypic correlates of resource uptake rate in a population of litter-feeding detritivore - **Thibaut Rota**
- 12:45 Roles of earthworms species in the organic matter recycling - **Kevin Hoefner**
- 12:51 Photoprimering of leaf litter for microbial degradation varies by litter type in an arid ecosystem - **René Guénon**
- 13:00 Caractéristiques et Influence de la flore ligneeuse dans la production des parcs  $\sqrt{t}$  base d'anacardier dans le Ba-lantacounda (Casamance/Sénégal) - **Seydou Ndiaye**

11:15

## Restoration ecology - Session #2

Location: Joliette

- 11:15 Transforming phytotoxic mine residues into soil - **Pierre Hennebert**
- 11:30 Ecological engineering tools to restore trace metal and metalloid polluted soils in Mediterranean protected areas - **Isabelle Laffont-Schwob**
- 11:45 Thinking 'allelopathy' and 'phenology' to enhance ecological restoration success: the case of Upper Rhin floodplain projects - **Isabelle Combroux**
- 12:00 Global study of ecosystem dynamics in a context of ecological restoration by sediment recharges and bank erosion in the Upper Rhine River. - **Cybill Staentzel**
- 12:06 Afforestation of old industrial disturbances: evaluation of aspen seedling characteristics for competitive sites - **Kyle Le**

11:15

## Evolutionary ecology - Session #2

Location: Grand Large

- 11:15 Maladaptive evolutionary shifts in life history in a changing climate - **Ophe-lie Ronce**
- 11:30 Genotype mixtures as a tool to develop sustainable agriculture: elucidating the mechanisms that drive genotypic interactions in durum wheat - **Hélène Fréville**
- 11:45 Genomics of niche evolution: tracking the emergence of plant parasitism and mycoheterotrophy - **Cristina Roquet**
- 12:00 Arrhenotokous parthenogenesis & mate-finding Allee effect in parasitoids - **Thierry Spataro**



- 12:15 Evolution of diet specialization among life stages with antagonistic-mutualistic shift: implications for community dynamics - **Aurore Picot**
- 12:30 Eco-Evolutionary responses to global change in a clonal population: role of epigenetics and non-genetic inheritance - **Arnaud Sentis**
- 12:45 Resolving the evolutionary history of New Guinea crowned pigeons and its implication for taxonomy and conservation - **Jade Bruxaux**
- 12:51 Experimental evolution of zinc tolerance and hyperaccumulation in *Nocca caerulescens* - **Julien Nowak**

11:15

### Symposium - Advances in landscape ecology

Location: Gstaud Amphitheater

- 11:15 Adaptation and adaptedness of organisms: expanding fundamental knowledge by studying urban landscapes - **Mark McDonnell**
- 11:45 Gene flow and landscape ecology - **Michel Baguette**
- 12:05 Advances in landscape ecology in urban areas - **Solène Croci**
- 12:25 Changes in thermal conditions: their influences on individual dispersal abilities and the consequences for functional connectivity - **Thomas Delattre**
- 12:45 Landscape ecology contribution to ecotoxicology studies - **Clémentine Fritsch**
- 13:05 Managing landscape spatio-temporal heterogeneity for biodiversity conservation - **Clelia Sirami**
- 13:25 Reconciling drainage basin and landscape approaches to improve water quality - **Gilles Pinay**

11:15

### Socio-ecosystems and ecological services - Session #2

Location: Estaque

- 11:15 Biodiversity loss, ecosystem service debt, and the sustainability of social-ecological systems - **Anne-Sophie Lafuite**
- 11:30 Beyond yield: balancing ecosystem services in harvested predator-prey communities - **Eric Tromeur**
- 11:45 Exploring the relationship between ecological communities and ecosystem services diversity in Europe: are common bird and butterfly functional traits good proxies? - **Karine Princé**
- 12:00 Are farmers interested in involving landscape complexity in their pest regulation strategies? - **Nicolas Salliou**
- 12:15 Ecosystem services supply trends in the Mediterranean Basin - **Ilse Geizendorffer**
- 12:30 What is the value of ecosystem services provided by coralligenous habitats? - **Laure Thierry De Ville D'Avray**
- 12:45 Fodder (ecosystem service) management in and around Ayubia National park, Pakistan - **Asma Jabeen**
- 12:51 Mobilization of the ecosystem services concept for integrated regional management: an application for the Grenoble urban region (France) - **Adeline Bierry**
- 13:00 Regional specific farming systems and ecosystem services tradeoffs: a Tunisian case study - **Ana Paula Garcia Nieto**

11:15

## Macro-ecology & biogeography - Session #1

Location: Lacydon

- 11:15 On the global relationships between vertebrate evolutionary history and productivity - **Wilfried Thuiller**
- 11:30 Identifying «hotspots» of diversity for conservation: taxonomy, phylogeny and ethnobotany in the Flora of Socotra Archipelago - **Marine Pouget**
- 11:45 Disentangling local adaptation and phenotypic plasticity in trees using national forest inventories - **Thibaut Frejaville**
- 12:00 Patterns of endemism and species diversification in the Alps - **Jan Smycka**
- 12:15 The centre-periphery hypothesis: new insights from an old biogeographical paradigm - **Guillaume Papuga**
- 12:30 Cold tolerance, niche conservatism, and the phylogenetic structure of grass assemblages worldwide - **Anne-Christine Monnet**
- 12:45 Large-scale decline of bats and bush-crickets revealed thanks to automatic acoustic monitoring scheme. - **Yves Bas**
- 12:51 Birds community structure through available energy in french ecosystems - **Claire Lorel**
- 13:00 The spatial structure of European vertebrate trophic webs. - **Joao Braga**

14:30

## Plenary - Microbial life through the lens of molecules - Purificación López-García

Location: Auditorium

15:45

## Symposium - Connectivity dynamics: patterns, processes, predictions

Location: Gastaud Amphitheater

- 15:45 A conceptual framework for understanding movement decisions in dynamic landscapes - **Mueller Thomas**
- 16:00 Analyzing landscape impacts on effective dispersal - Niko Balkenhol
- 16:15 The use of a movement simulator improves estimates of landscape connectivity - **Aurélie Coulon**
- 16:30 From individual movement decisions to population abundance patterns - **Jonathan Potts**
- 17:00 Spatio-temporal graphs to assess connectivity in dynamic landscapes - **Franck Jabot**
- 17:15 Examining the impact of alternative climate change adaptation strategies on range shifting ability and persistence in a fragmented landscape - **Justin Travis**
- 17:30 From simulated land use change to changes in the structure of habitat networks - **Cecile Albert**





15:45

**Agricultural ecology - Session #3**

Location: Auditorium

- 15:45 Effect of plant diversity on above and below ground food webs, perspectives to enhance pest regulations in agroecosystems - **Charlotte Poeydebat**
- 16:00 Effect of resource levels (fertilization) on epidemics and crop pathogen evolution - **Pierre-Antoine Precigout**
- 16:15 Can carabid beetles be potential predators of the olive fruit fly *Bactrocera oleae*? A lesson from olive orchards and woody semi-natural habitats in Tuscany, Italy. - **Alice Albertini**
- 16:30 Mustard covers around cereal crops: Increasing winter parasitism of aphid pests - **Maxime Damien**
- 16:45 Causes and consequences of arthropod diversity in a tropical agroecosystem: implications for conservation biological control - **Maxime Jacquot**
- 17:00 Impact of agro-ecological infrastructures on the biological control of *Dysaphis plantaginea* (Hemiptera: Aphididae) in apple orchards in north-western France. - **Laurence Albert**
- 17:06 Pest damage in mixed forests: disentangling the effects of neighbour identity, host density and host apparency at different spatial scales - **Bastien Castagneyrol**
- 17:15 Microbial volatile organics compounds (mvocs) emitted from soils amended with organic wastes - **Letizia Abis**
- 17:21 Treatment and valorization of olive by-products through vermicomposting - **Barhoum Kharbouch**

15:45

**Paleoecology**

Location: Salle 92

- 15:45 Palaeoenvironmental changes and Meso-Neolithic human-landscape interaction in the Caspian coast - **Suzanne Leroy**
- 16:00 Long-term aquatic dynamics of alpine lakes (L. Allos and Petit; 2200 m a.s.l.) during the Holocene and their close links with terrestrial ecosystems - **Rosine Cartier**
- 16:15 Champagne wines before champagne: a morphometric perspective - **Vincent Bonhomme**
- 16:30 Multi-proxies and benthic foraminifera approach as indicator of past eutrophication events from the west French coast. - **Clémence Caille**
- 16:45 Precipitation Reconstruction from Tree Rings for the Aures Region in Northern Algeria - **Said Slimani**
- 17:00 Emergence and fragility of a remarkable Corsican wetland: the contribution of palaeoecology - **Yoann Poher**
- 17:15 Hydroclimatic changes in Talesh Mts, NW Iran, during the last 15,000 years, based on a chironomid analysis. - **Cyril Aubert**

15:45

**Symposium - Microbiota under omics spotlights**

Location: Salle 120

- 15:45 Domestication of viruses by parasitic wasps to deliver virulence molecules and impact on lepidopteran genomes - **Jean-Michel Drezen**



- 16:05 Bacterial "social" network in French soils: a Metagenomics insight. - **Nicolas Chemidlin Prevost-Boure**
- 16:25 Multi-omics insight into marine plankton diversity : Tara Oceans - **Eric Pelletier**
- 16:45 Metagenomics of insect-symbiont interactions - **Jean-Christophe Simon**
- 17:05 Metagenomics of freshwater microbialites - **Aurélien Saghäi**
- 17:25 Niche construction of the pathogen *Agrobacterium tumefaciens* in plant host: a functional genomics insight - **Denis Faure**

15:45

### Conservation biology, policies and management - Session #3

Location: Saint Jean

- 15:45 Evaluating the European Habitat Conservation Policy - **Yves Meinard**
- 16:00 Biodiversity in "economy vs nature" dilemmas: analysis of public and private attitudes and decisions in two environmental conflicts in Southern France metropolitan area - **Nathalie Boutin**
- 16:15 Naturalness assessment, a tool to link efficiently paleoecology and conservation - **Vincent Robin**
- 16:30 The presence of scientific ecology in the encyclical letter *Laudato si* - **Fabien Revol**
- 16:45 Biodiversity Conservation and Global Change: A Political Ecology of Adaptation Policies in Southern France - **Raphaël Mathevet**
- 17:00 A tale of two diversities - **Charles Figuières**
- 17:15 The wolf, the wild boar and the media: how semantic plurality and scientific publicization impact human-wildlife conflict mitigations. - **Marie Chandelier**
- 17:30 Charismatic species: who are they? - **Céline Albert**
- 17:36 Comment choisit-on la recherche que l'on mène en écologie? - **Claire Damesin**

15:45

### Global change - Session #2

Location: Lacydon

- 15:45 Climate change threatens the worldwide fish fauna - **Lise Comte**
- 16:00 Extreme drought on grasslands: presence of *Trifolium repens* promotes aboveground recovery through complementarity effects - **Pauline Hernandez**
- 16:15 The impacts of ENSO on the methane emissions of tropical wetlands - **Changhui Peng**
- 16:30 Climatic variability leads to temporal changes in forest communities through effects on both environmental and biotic assembly processes. - **Mickael Chauvet**
- 16:45 Effect of elevated CO<sub>2</sub> and temperature on abiotic and biologically-driven basalt weathering and C sequestration - **Sabrina Juarez**
- 17:00 Direct and indirect effects of glaciers on aquatic biodiversity in high Andean peatlands - **Estefania Quenta Herrera**
- 17:15 Climate change, the Paris Agreement thresholds and Mediterranean ecosystems - **Joel Guiot**
- 17:30 Presentation of the Laboratory of Excellence OT-Med : Objectiva Terra - Mediterraneum - **Joel Guiot**





17:36 Tree-Rings to Climate relationships in *Pinus nigra* Arn at Souiniet experimental site in Northwestern Tunisia. - **Sondes Fkiri**

15:45

### Biological invasions - Session #3

Location: Joliette

15:45 Host range expansion is density dependent - **Bastien Castagneyrol**

16:00 Habitat quality and the velocity of spatial population expansion - **Marjorie Haond**

16:15 Using simulation to infer key parameters of the black rat colonization in Senegal during the elapsed century - **Jean Le Fur**

16:30 Parasite-mediated difference in functional response between invasive and native freshwater amphipods - **Vincent Médoc**

16:45 Mitigated predation impact of cats on continental biodiversity - **Delphine Ducros**

17:00 Contemporary evolution of immunity during range expansion of two invasive rodents in Senegal - **Christophe Diagne**

17:15 Climate constrains range expansion of a population diverging under allochrony : the case of the pine processionary moth - **Martin Godefroid**

17:30 Thirteen years after the first record of the Asian Longhorned Beetle in Europe : a preliminary analysis of the invasion history. - **Marion Javal**

15:45

### Population and community ecology - Session #3

Location: Grand Large

15:45 When citizens and scientists work together : a french collaborative science network on earthworms communities distribution - **Muriel Guernion**

16:00 New metrics of species' ecological niche to assess relationships between biodiversity and ecosystem processes - **Guillaume Decocq**

16:15 Diversity - stability relationship: from theory to natural communities - **Théophile Olivier**

16:30 Community ecology of the coralligenous assemblages using a metabarcoding approach - **Aurélien De Jode**

16:45 Diet composition and habitat use of wintering Montagu's Harriers in West Africa - **Ben Koks**

17:00 Fitness consequence of small population size in academia - **Xavier Fauvergue**

17:15 Species composition, relative abundance and habitat association of Waterbirds in the Sahara wetlands of Algeria - **Ettayib Bensaci**

17:30 Evidence of group tenacity in a colonial breeder with weak site philopatry - **Charlotte Francesiaz**

15:45

### CESAB: Using our treasure trove of knowledge to confront complex ecological questions - Session

Location: Estaque

15:45 IRBAS: intermittent river biodiversity analysis & synthesis - **Thibault Datry**

## ORAL PRESENTATIONS: THURSDAY 27 OCTOBER

- 16:00 Using metacommunity graphs to address multiscale biodiversity dynamics - application to French meadows. - **Pierre Denelle**
- 16:15 Global patterns of insect diversity, distribution and evolutionary distinctness - **Carlos Lopez-Vaamonde**
- 16:30 Disentangling the linkages between biodiversity and emerging infectious diseases - **Jean-François Guégan**
- 16:45 How local-scale processes build up the large-scale response of butterflies to global changes - **Reto Schmucki**
- 17:00 Feedbacks of a couple of eco-informatic tools for soil invertebrate functional traits: an example of interoperability by semantic data integration - **Johanne Nahmani**
- 17:15 NETSEED : a cross-disciplinary project to analyse how small farms contribute to global agrobiodiversity - **Mathieu Thomas**
- 17:30 Biological invaders in food webs - **Patrice David**
- 17:45 Origin and congruence of taxonomic, phylogenetic, functional and paleoecological diversity patterns: the model of European-Mediterranean woody plant biodiversity - **Arndt Hampe**
- 18:00 African rain forest dynamics: interactions between ecological processes and conservation actions - **Thomas Couvreur**
- 18:15 Community Assembly on Remote Islands: Does Equilibrium Theory Apply? - **Christophe Thebaud**
- 18:30 Reef fish, "new comers" in macro-ecology - **Michel Kulbicki**

8:45

### Plenary - Release or restore ecosystems? - **Thierry Dutoit**

Location: Auditorium

10:45

### Symposium - Conservation of biodiversity in the Mediterranean: how to link science and policy?

Location: Gastaud Amphitheater

10:45 Science-policy interface for biodiversity conservation: Bridging the knowledge gap, complying with a scientific imperative or preventing an environmental decline? - **Audrey Coreau**

11:00 Critical limits to environmental change for the Mediterranean Region - **Wolfgang Cramer**

11:15 Development of agriculture in the S-Mediterranean basin. - **Mélanie Requier-Desjardins**

11:30 The Mediterranean Wetland Observatory: a link between science and policy - **Christian Perennou**

11:45 Assessment of land - use changes in Mediterranean wetlands - **Anis Guelmami**

12:00 Climate change and mediterranean wetlands: which constraints for wintering waterbirds? - **Elie Gaget**

12:15 Ecological services in the Mediterranean wetlands - **Ozge Balkiz**

10:45

### Urban ecology - Session #1

Location: Saint Jean

10:45 Technosols colonization by macrofauna and vegetation - **Charlotte Pruvost**





- 11:00 Earthworms of urban parks in a Mediterranean context: effects of management, park age and landscape - **Alan Vergnes**
- 11:15 Les solutions fondées sur la nature en milieu urbain : propositions, retours d'expériences et analyse comparative - **Marc Barra**
- 11:30 Multiscale effects of landscape on flower-feeding insects in the region Ile-de-France - **James Desaegher**
- 11:45 Plant species variations in common herbaceous patches along an urban-rural gradient - **Arnaud Cochard**
- 12:00 Validation of ecological connectivity model predictions in urban areas: replicated landscape genetic study on the land snail *Cornu aspersum* - **Manon Balbi**
- 12:15 Using Species Distribution Models with non-equilibrium species: the case of spreading bird species in the town of Marseille, France - **Marine Le Louarn**
- 12:21 Ecological role and perception of wastelands in cities - **Sébastien Bonthoux**
- 12:30 Agronomic fertility of dam sediment for soil construction in urban greening - **Gaëtan Fourvel**
- 12:36 Indicateurs d'état de santé de la faune et la flore en Île-de-France : les sciences participatives comme support d'un observatoire régional - **Audrey Muratet**
- 10:45  
**Networks and biotic interactions - Session #1**  
Location: Salle 92
- 10:45 Stoichiometry as an interaction trait in a multitrophic system - **Sylvain Coq**
- 11:00 The spatial scaling of food web structure - **Nuria Galiana**
- 11:15 Prey parasitism affects predator-prey dynamics and the evolution of predator foraging - **Loïc Prosnier**
- 11:30 Interactions between habitat use, isotopic niche variation and overlap among fish species in a temperate semi-enclosed sea - **Carolina Giraldo**
- 11:45 Belowground competition induced by a wind-pollinated species influences attractiveness of an insect-pollinated plant, *S. alba*, to wild pollinators. - **Floriane Flacher**
- 12:00 Study of the preference-performance relationship in generalist parasitoids - **Lucie Monticelli**
- 12:15 Concomitant decline in floral resources and wild bees in Belgium: insights from historical time series - **Floriane Jacquemin**
- 12:21 Are mycorrhizal-bacterial community networks impacted by the sexual type of their host tree? - **Hervé Sanguin**
- 12:30 FlorAbeilles: a database studying plant-bees relationships - **Clémentine Coiffait-Gombault**
- 10:45  
**Symposium - Chemical Mediation in Ecosystems**  
Location: Salle 120
- 10:45 Can plants multitask? Interactions between aboveground and belowground herbivore-induced plant responses - **Nicole Van Dam**
- 11:15 Converging strategies in plant-manipulating insects: insect-induced effects on plants and possible mechanisms used by leaf-miners to manipulate their host-plant - **David Giron**

- 11:30 Chemical Ecology of Marine Fungi - **Soizic Prado**
- 11:45 Chemical defenses under stress - **Martin Wahl**
- 12:15 The ecology of chemical-defense polymorphisms in crop plants - **Doyle Mckey**
- 12:30 Chemical ecology of freshwater macrophytes: Limited or unexplored allelochemical interactions? - **Elisabeth Gross**

10:45

### Agricultural ecology (and landscapes) - Session #4

Location: Estaque

- 10:45 How does connectivity of permanent grasslands influence bird and plant communities? - **Joséphine Pithon**
- 11:00 Landscape heterogeneity related to organic and conventional farming systems: effects on natural enemies of crop pests and pest predation levels - **Stéphanie Aviron**
- 11:15 A Bayesian hierarchical model to estimate natural enemies' movements between hedgerow and apple orchard based on immunological marking. - **Manon Lefebvre**
- 11:30 Exploring the link between response to habitat fragmentation and pollination efficiency in wild bee communities: a trait-based approach - **Romain Carrié**
- 11:45 Plant functional trait diversity in wild-flower strips: the key to promote pollinators in agricultural landscapes? - **Roel Uyttenbroeck**
- 12:00 Patch dynamics as principal driver of weed species assembly - **Lucie Mahaut**

- 12:15 Drivers of ground beetle richness and activity-density in woody elements of two contrasted agricultural landscapes in North France - **Vincent Le Roux**
- 12:21 Bird functional insectivory and landscape complexity in vineyard agroecosystems - **Luc Barbaro**
- 12:30 Impact of root profile on soil microbial functioning: what are the consequences for belowground ecosystem services? - **Yogan Monnier**

10:45

### Evolutionary ecology - Session #3

Location: Grand Large

- 10:45 Adaptation to a stress gradient of elevation in the alpine plant *Arabis alpina* - **Pierre De Villemereuil**
- 11:00 Evaluation of genetic variability and local adaptation of silver fir (*Abies alba*) from reciprocal transplant experiments over 3 altitudinal gradients - **Anne Latreille**
- 11:15 When the relatedness of your neighbour matters: kin selection through facilitation in trees - **Irène Till-Bottraud**
- 11:30 Conserved genetic architecture of morphological and life-history traits across four wild populations of Blue tit - **Boris Delahaie**
- 11:45 Diversification, evolution of floral traits and integrative taxonomy of the *Pseudophrys* section (Orchidaceae) - **Nina Joffard**
- 12:00 Testing options for adaptive forest seed sourcing under climate change using individual based models - **Richard Whittet**





- 12:15 Metabolites relating to phenotypes and environments: between-population differentiation within species - **Françoise Hennion**
- 12:21 A test for pollinator mediated selection on floral traits in two Iris species - **Eric Imbert**
- 12:30 Inbreeding depression and selective history in *Noccaea caerulea* - **Mathilde Mousset**

10:45

### Macro-ecology & biogeography - Session #2

Location: Lacydon

- 10:45 Niche width impacts vertebrate diversification - **Jonathan Rolland**
- 11:00 Global patterns in predation pressure on sea urchins - **Hannah Sheppard Brennand**
- 11:15 Explaining the global bird migration system from first principles using a process-based model - **Marius Somveille**
- 11:30 Relevant spatial scales when upscaling larval transport into a connectivity matrix to forecast marine population density distribution: the *Eunicella singularis* study case in the Gulf of Lion (NW Mediterranean) - **Katell Guizien**
- 11:45 How connectivity promotes biodiversity in the face of global changes. - **Romain Lorrilliere**
- 12:00 Freshwater gammarids (Amphipoda) from Crete and Peloponnese: the study of the diversity and origin of insular freshwater fauna - **Kamil Hupaló**
- 12:15 Local dynamics slow the response of species ranges to climate change in eastern North American forests - **Matthew Talluto**

- 12:21 Spatial variability of the circa-littoral bioconstructed communities between the northern and the southern coasts of the western basin of the Mediterranean sea. - **Selmane Sakher**
- 12:30 Species distribution modeling and the heterogeneity of Antarctic biodiversity data - **Salomé Fabri-Ruiz**
- 12:36 Species distribution 2.0: An accurate time- and cost-effective method of prospection using street view imagery - **Laurent Hardion**

10:45

### Parasites, pathogens and disease - Session #1

Location: Joliette

- 10:45 Exposure of Yellow-legged gulls to *Toxoplasma gondii* along the Western Mediterranean coasts: tales from a sentinel - **Amandine Gamble**
- 11:00 Resource quality modulates both infection success and intensity in the amphipod *Gammarus pulex* infected by an acanthocephalan parasite. - **Kevin Sanchez-Thirion**
- 11:15 Co-evolutionary process occurring in Sympatric / Allopatric Immune response in *Biomphalaria glabrata* / *Schistosoma* interactions - **Anais Portet**
- 11:30 Cross-feeding of algal and anaerobic microbiota in the digestive system of a marine herbivore - **Angélique Gobet**
- 11:45 Impact of climate change on the dynamics of forest pests in Algeria - **Gahdab Chakali**
- 12:00 Diversity and impact of the beetle on the forest stands of Aleppo pine (*Djelfa* - Algeria) - **Houda Derouèche**

12:15 Drivers of Foot and Mouth Disease in cattle at wild/domestic interface: insights from farmers, buffalo and lions - **Eve Miguel**

14:00

### Plenary - Networks of interactions in ecology - **François Massol**

Location: Auditorium

15:15

### Genetics and molecular ecology - Session #2

Location: Lacydon

15:15 Monitoring population dynamics of a cryptic biological indicator of managed forest using non-invasive genetics. - **Pierre-Loup Jan**

15:30 Molecular mechanisms of trans-generational immune priming in invertebrates - the case study of the mealworm beetle. - **Guillaume Tetreau**

15:45 Adaptive genomics in a natural population of *Arabidopsis thaliana*: a resurrection study in a spatially heterogeneous environment - **Léa Frachon**

16:00 A biogeographical inquiry to decipher the ecological status of carob populations (*Ceratonia siliqua* L., Leguminosae) and their history prior to Mediterranean civilizations - **Juan Viruel**

16:15 New genomic tools to explore the evolutionary history of African rainforest trees - **Jérémy Migliore**

16:30 TiO<sub>2</sub> nanoparticles alter iron homeostasis in *Pseudomonas brassicacearum* as revealed by PrrF sRNA modulation - **Wei Liu**

16:45 QTL mapping for zinc tolerance at the intra-specific level in *Arabidopsis halleri* using a F<sub>2</sub> progeny - **Marie-Joe Karam**

15:15

### Parasites, pathogens and disease - Session #2

Location: Grand Large

15:15 Antimicrobial resistances in wildlife: insights from a Mediterranean biodiversity hotspot, the Camargue (Southern France). - **Marion Vittecoq**

15:30 Antibiotics prevalent in European surface waters induce bacterial adaptation - **Marie-Claire Danner**

15:45 {GEN x EPI} x E => P: A systems approach to (epi)genetic inheritance and evolution - **Christoph Grunau**

16:00 The microbiota as a bacterial passport? Community structure and major players in the terrestrial isopod microbiome - **Didier Bouchon**

16:15 Testing a vaccine against avian cholera in albatrosses: combining observational and experimental data in a remote seabird community - **Vincent Bourret**

16:30 Diversity and evolution of Sinaivirus and related viruses in honeybees and wild hymenoptera - **Elisabeth Heriou**

16:45 Why is there no effect of host species on the physiological thermotolerance of generalist parasitoids? - **Joan Van Baaren**

17:00 Dynamics of the liver flukes in a highly anthropized system: the Camargue - **Emeline Sabourin**

17:06 New results in invertebrate pathogens recognition: a new approach supporting new concepts? - **Silvain Pinaud**





15:15

## Networks and biotic interactions - Session #2

Location: Salle 92

- 15:15 The empty and unstable forest: habitat loss effects on multitrophic communities - **Daniel Montoya**
- 15:30 Combining a molecular diet analysis (NGS) and biotraits of prey community to refine the habitat selection of a predator. The case of the endangered Pyrenean desman (*Galemys pyrenaeus*) - **Marjorie Biffi**
- 15:45 Effect of depth gradients on fish trophic relationships in the English Channel - **Pierre Cresson**
- 16:00 Nutrient recycling in complex food web models - **Pierre Quévreur**
- 16:15 Novel metacommunity modelling approaches highlight the importance of biotic interactions on the speed of the temperate biome shift in response to climate change. - **Isabelle Boulangeat**
- 16:30 Impact of ozone pollution on chemical communication in a highly specialized plant-pollinator interaction - **Magali Proffit**
- 16:36 Laboratory and field studies on the interaction between kelps and filamentous algal endophytes - **Miriam Bernard**

15:15

## Chemical Mediation in Ecosystems - Session #1

Location: Salle 120

- 15:15 Does the metabolome of a drought-resistant species shift under water stress over the seasonal cycle? - **Amélie Sautier**

- 15:30 How environmental changes interact to shape non-vascular and vascular plant allelochemical interactions in terrestrial ecosystems ? - **Geneviève Chiapusio**

- 15:45 Predator-prey interactions in a changing world: humic stress suppresses predator cue perception in copepods - **Mathieu Santonja**

- 16:00 Long distance interaction between cave-dwelling sponges and crustaceans mediated by chemical cues - **Marie Le Croller**

- 16:15 Intriguing chemical mediation between the European palm and its specialized pollinator - **Mathilde Dufay**

- 16:30 Understanding how herbivorous insects specialize by studying the evolution of chemosensory perception - **Coline Jaworski**

- 16:45 Exploring the role of aldehyde-based signaling during kelps/herbivores interactions - **Léa Cabioch**

- 17:00 Rose floral scent - **Sylvie Baudino**

- 17:15 Chemical cues affect the feeding choices in lichen-snail trophic interactions - **Alice Gadea**

15:15

## Symposium - Ecological and biogeographical consequences of global change on insular biodiversity

Location: Saint Jean

- 15:15 Contrasted populations dynamics of orchid species between insular and continental situations - **Bertrand Schatz**

- 15:45 Global patterns in extinction and threats to vertebrates by biological invasions in islands. - **Celine Bellard**



- 16:15 Islands, mainland and terrestrial fragments: how isolation shapes plant diversity. - **Emi Martin-Queller**
- 16:35 Interactions between non-native predators and human-induced ecological disturbance: implications for conservation of island biodiversity in the Mediterranean - **Lise Ruffino**
- 16:55 Salar de Uyuni (Bolivia): Unique island biodiversity challenged by tourism and agriculture - **Arthur Sanguet**

15:15

### Conservation biology, policies and management - Session #4

Location: Gstaad Amphitheater

- 15:15 Fruit set in European orchids: a bridge between evolutionary ecology and conservation - **Iris Le Roncé**
- 15:30 The deforestation process in the southern amazon and framework to develop and implement sustainable alternatives: a research proposal - **Lisandro Botelho**
- 15:45 Balancing economic costs and ability to detect change in survival for optimising capture-recapture surveys of long-lived birds - **Nicolas Lieury**
- 16:00 Subtle temperature variations drive nesting habitat preference for white-backed vultures (*Gyps africanus*) in Hwange national park, Zimbabwe - **Blessing Kavhu**
- 16:15 Trading reproduction for survival in the wild? Comparative analyses of raptor populations reveals no evidence for life-history tactics. - **Jabi Zabala**
- 16:30 Protecting the evolutionary and functional diversity of birds and mammals - **Laura Pollock**

- 16:45 Where implant wind turbines and their offset measures in a farming landscape to mitigate the negative impacts of the establishment on bats? - **Kévin Barré**
- 17:00 Around the No Net Loss debate: how stakeholder agreements may interfere with biodiversity conservation? - **Julie Latune**

15:15

### Symposium - Effects of semi-natural habitats on pest insects and natural enemies

Location: Estaque

- 15:15 Pest-natural enemy interactions in a landscape context - **Felix Bianchi**
- 15:45 Predation rate of pests and natural enemies in crops across nine European case studies: the role of semi-natural habitats - **Philippe Jeanneret**
- 16:00 Landscape potential in pollen provisioning for beneficial insects favours biological control in crop fields - **Aude Vialatte**
- 16:15 The effect of field margin vegetation on the regulation of crop herbivores in two winter crops - **Anna Pollier**
- 16:30 Interest of a trait-based approach to understand plant-arthropod interactions in agroecosystems and implications to improve conservation biological control - **Antoine Gardarin**
- 16:45 Local and landscape scale effects on seed-eating carabids and levels of weed seed predation in arable fields - **Sandrine Petit**
- 17:00 Landscape composition and farming practices affect the abundance of the codling moth and its predation and parasitism in apple orchards - **Claire Lavigne**





## POSTER SESSIONS

Both poster sessions will take place in the Exhibition hall

<b>Poster Session A : Tuesday 25 October</b>	<b>Poster Session B : Thursday 26 October</b>
<p><b>Topics associated :</b></p> <ul style="list-style-type: none"><li>• Agricultural ecology</li><li>• Behavioural ecology</li><li>• Biological invasions</li><li>• Ecosystems functioning and dynamics</li><li>• Global change</li><li>• Population and community ecology</li><li>• Restoration ecology</li><li>• Soil ecology, biogeochemistry and plant-soil interactions</li></ul>	<p><b>Topics associated :</b></p> <ul style="list-style-type: none"><li>• Chemical Mediation in Ecosystems</li><li>• Conservation biology, policies and management</li><li>• Ecophysiology</li><li>• Evolutionary ecology</li><li>• Genetics and molecular ecology</li><li>• Landscape ecology</li><li>• Macro-ecology &amp; biogeography</li><li>• Networks and biotic interactions</li><li>• Parasites, pathogens and disease</li><li>• Urban ecology</li><li>• Paleoecology</li><li>• Socio-ecosystems and ecological services</li></ul>

## Agricultural ecology # Poster

- AE#P-1 Lupine Seeds as protein source in pig diets - **Degola Lilija**
- AE#P-2 Field beans as protein source in feed ration for Boer goat - **Aplocina Elita**
- AE#P-3 Etude de la biocénose viticole du nord algérien - **Bissaad Fatima Zohra**
- AE#P-4 Strategy of biological control against pathogens of the main crops in Tlemcen region - **Gaouar Benyelles Nassira**
- AE#P-5 Présence myrmécologique dans deux stations différentes dans l'Algérois - **Saidi Mahdia**
- AE#P-6 Biological regulations in response to local pesticide use and to the landscape context of fields: preliminary findings from the national SEBIOPAG network - **Petit Sandrine**
- AE#P-7 Etude de l'effet d'un insecticide Decis sur la biochimie et la chimie du sol - **Tahar Wafa**
- AE#P-8 Champignons mycorhiziens à arbuscules indigènes un outil de biotechnologie appliqué sur les plants de pastèque - **Hamza Nabila**
- AE#P-9 Effects of mixture diversity of winter wheat on carabids - **Vergnes Alan**
- AE#P-10 Assessing the effect of herbicide on crop-weed interaction with weed-crop phylogenetic and functional similarities - **Mahaut Lucie**
- AE#P-11 Effect of local landscape heterogeneity on crop colonization by natural predators of pests in protected horticultural cropping systems - **Aviron Stéphanie**
- AE#P-12 Weed diversity responses to crop sequence: a conceptual framework to test ecological predictions - **Mahaut Lucie**
- AE#P-13 Long term influence of the Sélune river (France) on the organization of agricultural landscapes and vegetation communities - **Alignier Audrey**
- AE#P-14 Does plant functional diversity in flower strips promote soil invertebrate diversity and ecological functions relationships in the adjacent rapeseed crop? - **Zwicke Marine**
- AE#P-15 Alfalfa management: an additive resource for pollinators - **Mandel Amélie**
- AE#P-16 New high-tech method for assessing functional Arthropod biodiversity - **Auger Jacques**
- AE#P-17 Particularities of roots colonization by mycorrhizal fungi and diversity of indigenous arbuscular fungi in the rhizosphere of strawberry in morocco - **Bahouq Madiha**
- AE#P-18 Growth and fruiting after mycorrhizal inoculation and fumigation effect on roots and mycorrhizal development of strawberry - **Bahouq Madiha**
- AE#P-19 Study of the carabids-seeds interaction like a predator prey interaction - **Deroulers Paul**
- AE#P-20 Multiple parameters interact to determine fitness costs associated with resistance to genetically modified crops in an agricultural pest - **Tetreau Guillaume**
- AE#P-21 Impact du contenu polyphénolique sur la résistance à l'infestation fongique dans le grain de blé dur - **Malika Barkat**





- AE#P-22 Composition and microbial activity of thymus ciliatus harvested during two stages of development - **Touhami Aicha**
- AE#P-23 Ecology and biodiversity of Araneida (Arthropoda, Arachnida) at an agricultural field of Algiers region - **Kherbouche-Abrous Ourida**
- AE#P-24 Antibacterial and antifungal activity of phenolic compounds against pathogens of olive fruit (Olea) from western Algeria - **Aissat Benali**
- AE#P-25 Biodiversité de trois milieux - **Gherbi Rachida**
- AE#P-26 Biodiversité des Mollusques Gastéropodes Terrestres dans le Nord-Est Algérien - **Hamdi-Ourfella Amina Nawel**
- Behavioural ecology # Poster**
- BE#P-1 Evaluation de la toxicité de deux pesticides chez un protozoaire cilié: Paramecium sp. - **Sbartai Ibtissem**
- BE#P-2 ?Eco-ethology of wintering the Common Teal *Anas crecca crecca* (Anatidae) in North-east of Algeria? - **Khemis Mohamed Dhaya El Hak**
- BE#P-3 Methodology for the behavioral study of fish post-larvae on the Corsican coastline (east coast: Bastia) - **Rossi Amélie**
- BE#P-4 Diversity and structure of butterfly (Lepidoptera, Rhopalocera) in The region of M'sila (Algeria) - **Ahmed Saad**
- BE#P-5 Can winter diet and distribution explain differential survival between two morphs of the Common guillemot? - **Albert Céline**
- BE#P-6 Régime trophique du chacal dore *Canis aureus* dans le parc national du Djurdjura - **Djedjiga Oubellil**
- BE#P-7 Empirical testing of sexual selection's potential role on genitalia variation in the simultaneously hermaphroditic land snail *Helix aperta* (Pulmonata, Stylommatophora) - **Abdelli Meriem**
- BE#P-8 Auto-ecology and place of species *Ruta gender* in plant communities in north western Algeria. - **Zineb Bennaoum**
- BE#P-9 Group association at shore and genetic relatedness of returning swimming groups in chinstrap penguins - **Lee Won Young**
- BE#P-10 Seed Dispersal and Germination Traits of 25 Plant Species Inhabiting the northern Sahara in Algeria - **Trabelsi Hafida**
- BE#P-11 Habitat selection and diving behaviour of the olive ridley sea turtle *Lepidochelys olivacea* along the Guiana coast during the inter-nesting period. - **Giraudou Lucie**
- BE#P-12 Morphological variability of the Atlantic horse mackerel *Trachurus trachurus* (Linnaeus, 1758) of the Algerian coast - **Lyamine Mezedjri**
- BE#P-13 Biodiversité des oligochètes terrestres dans la région d'Annaba: inventaire et biométrie - **Habes Dahbia**
- BE#P-14 Larval exposure to azadirachtin affects oviposition site preference of *Drosophila melanogaster* - **Samira Kilani-Morakchi**

- BE#P-15 Inventory of insects, foraging behavior and pollination effectiveness of honey bee (Hymenoptera: Apoidea) on Apricot (*Prunus armenica* L.) and Pear (*Pyrus communis* L.) in Constantine area (Algeria) - **Benachour Karima**
- BE#P-16 Ecologie de l'Erismature à tête blanche *Oxyura leucocephala* dans les zones humides de la Numidie algérienne - **Chettibi Farah**
- BE#P-17 Les requins en Méditerranée Marocaine - **Hamdi Habiba**
- BE#P-18 Aspects of the breeding ecology of the Purple Swamphen (*Porphyrio porphyrio*) in the wetland complex of Guerbes-Sanhadja, Northeast Algeria - **Moulim Bara**
- BE#P-19 Comportement journalier d'un oiseau granivore le Serin cini *Serinus serinus* (Linné, 1766) à l'École Nationale Supérieure d'El Harrach (Algérie) - **Ouarab Samia**
- BE#P-20 Impact of abiotic parameters on the spatio-temporal distribution of cyanobacteria in the Zeralda's dam (algeria) - **Safia Akli -Bidi**
- BI#P-3 One can be enough: compared performances and defences between one widespread clone and native populations in a major invasive plant species - **Rouifed Soraya**
- BI#P-4 The potential of remote sensing for the mapping and monitoring of invasive alien knotweeds - **Martin François-Marie**
- BI#P-5 Feral cat predation at a biodiversity hotspot scale: the case of the New Caledonian Archipelago - **Palmas Pauline**
- BI#P-6 Microwave soil heating for controlling invasive plant species germination - **Buisson Elise**
- BI#P-7 Recent range expansion of *Megachile sculpturalis* (Apoidea, Megachilidae) in France since its first record in 2008 - **Le Féon Violette**
- BI#P-8 "Acacia mearnsii De Wild": un nouveau fléau pour la subéraie du Parc National d'El Kala (Nord-Est algérien) - **Chekchaki Samir**
- BI#P-9 Can environmental factors promote reproductive barriers between two interfertile congeneric ascidians, one native and one invasive? An experimental approach - **Malfant Marine**
- BI#P-10 Plant diversity degradation around a saline, dry and continental lake. Case of Chott El Hodna in Algeria, a Ramsar Conservation Wetland - **Abdelghani Zedam**

### Biological invasions # Poster

- BI#P-1 Species distribution modeling for invasion risk assessment: going beyond the species paradigm - **Goddefroid Martin**
- BI#P-2 A global invader at home: influence of avian vectors and lake chemistry on connectivity among native *Artemia franciscana* populations in prairie Canada - **Lejeusne Christophe**

### Ecosystems functioning and dynamics # Poster

- EFD#P-1 Evaluation de la couleur et de la qualité biologique des eaux marine de la baie de Bou-Ismaïl à partir de l'imagerie satellite Landsat - **Boufenniza Redouane Larbi**



- EFD#P-2 The study of the forest formations dynamic in the daia-saida montains (saida, algeria) by aerospace remote sensing - **Ghaouti Kerrache**
- EFD#P-3 Metal pollution affects small mammal communities - **Vaniscotte Amélie**
- EFD#P-4 Hoverflies (Diptera, Syrphidae) as indicators of ecosystem functioning - **Neve Gabriel**
- EFD#P-5 Small-scale isoscape for marine benthic habitats - Isotope mapping of the honeycomb-worms Sabellaria alveolata diet - **Jones Auriane**
- EFD#P-6 Isolation of microbial strains, producing pigments, from Algerian biotopes and technological processes - **Bekhouche Farida**
- EFD#P-7 Relationship between structural and functional features of ecological networks: a potential tool to assess ecosystem health? - **Hette-Tronquart Nicolas**
- EFD#P-8 Floristic diversity and Orthoptera in the nature reserve Mergueb Stipa tenacissima (Algeria) - **Chebou-ti-Meziou Nadjiba**
- EFD#P-9 Evaluation bioécologique de l'île Agueli Réghaia (W. Alger) Algérie - **Bachetarzi Rym**
- EFD#P-10 Contribution à l'étude de la faune associée à Cystoseira barbata dans la région de Tipaza (Algerie) - **Reb-zani Zahaf Chafika**
- EFD#P-11 Design and outcome of a dynamic and experimental Precipitation Management System in Southern France - **Reiter Ilja**
- EFD#P-12 Spatial distribution of leaf breakdown in two French Mediterranean lakes - **Marchand Céline**
- EFD#P-13 Deer browsing causes short-term species shift between silver fir and Norway spruce in the Vosges Mountains, northeastern France - **Bernard Marianne**
- EFD#P-14 Mares temporaires méditerranéennes : gradient hydrologique et traits fonctionnels - **Gachet Sophie**
- EFD#P-15 Long-term research in a tropical forest ecosystem: 30th anniversary of the Nouragues Ecological Research Station - **Courtois Elodie**
- EFD#P-16 In situ assessment of seasonal variation of assimilated carbon transfer to biochemical compounds by tracing <sup>13</sup>C after pulse labelling on Quercus petraea - **Bazot Stéphane**
- EFD#P-17 Ecological strategies for water resource management: from water quality status assessment to water remediation engineering - **Petit Marie-Eléonore**
- EFD#P-18 Biodiversity survey of Maltese underwater marine cave ecosystem - **Ruiz Cesar**
- EFD#P-19 The Ecotron IDF : an innovative climate and atmosphere simulator for applied experimental ecology - **Massol Florent**
- EFD#P-20 Contribution to the study of the impact of overgrazing on the dynamics of the plant and soil biodiversity in the Mediterranean region (western Algeria) - **Brahimi Naima**
- EFD#P-21 Estimation and Analysis of the problems of degradation of steppe ecosystem of the basin South-east El-Hodna (M'sila) by using remote sensing data - **Sara Benfarhi**
- EFD#P-22 Diversité floristique des groupements à Cistus monspeliensis -cas de la forêt de Bissa, Algérie - **Zem-mar Nabila**

- EFD#P-23 Assessment of the condition of natural Oriental beech ecosystems in Strandzha Mountain and their potential to provide ecosystem services under climate change - **Georgieva Gergana**
- EFD#P-24 Bio-ecology and exploitation indices of monkfish *Lophius budegassa* Spinola, 1807 of the Algerian coast - **Nouar Ahmed**
- EFD#P-25 Together we are stronger ?! Competition and synergies between Plant Functional Types in a changing precipitation regime in North Africa - **Groner Vivienne**
- EFD#P-26 Etude des phénomènes d'accumulations des éléments en traces et des terres rares dans les systèmes aquatiques de surface, les sebkhas et les chotts : cas du Bas Sahara algérien - **Hacini Messaoud**
- EFD#P-27 Mécanismes d'eutrophisation dans le barrage de Hammam Boughrara, Algérie : Apports en nutriments et dynamique des populations phytoplanctoniques - **Djelita Belkheir**
- EFD#P-28 Dynamics of wood decay at sea - **Charles François**
- EFD#P-29 Effects of past land use on Mediterranean forest understory vegetation - **Abadie Juliet**
- EFD#P-30 Utilisation des diatomées comme bioindicateur de la qualité des eaux (lac Tonga au Nord-Est Algérien) - **Chabaca Hasna**
- EFD#P-31 Dynamique régressive de la végétation des Monts de Tlemcen (Algérie occidentale) - **Bouazza Mohamed**
- EFD#P-32 Les Coléoptères aquatiques du bassin versant de la Tafna : diversité et répartition - **Ammouri Rahma**
- EFD#P-33 Les groupements à *Quercus faginea* dans la forêt de Moutas ? Tlemcen (Algérie occidentale) - **Babali Brahim**
- EFD#P-34 Vertical distribution of aquatic invertebrates in high Tafna (North West Algeria) - **Benkebil Zeyneb**

### Global change # Poster

- GC#P-1 Diachronic Analysis of the Steppe Land Cover of the department of Sidi Bel-Abbes using the remote sensing (Western Algeria) - **Ayache Abbassia**
- GC#P-2 Changements climatiques et changements de végétations en haute altitude : 15 ans de suivis en Mercantour (Alpes-Maritimes) - **Corcket Emmanuel**
- GC#P-3 Construction and fragmentation of sustainable development memory through key events and founding texts - **Pascual Céline**
- GC#P-4 Collembolan trait patterns with climate modifications along a European gradient: the VULCAN case study - **Bonfanti Jonathan**
- GC#P-5 Role of functional traits to predicate contraction and expansion of range species in response to climate change in south Algerian steppe - **Hocine Ait Mouheb**
- GC#P-6 Impact du réchauffement climatique sur la physiologie et la morphologie de macrophytes aquatiques - **Thiebaut Gabrielle**
- GC#P-7 Impact of climate change on developing salt-tolerant groups - **Kerzabi Rachida**



## Population and community ecology # Poster

- PCE#P-1 Bird population's characterization and phenology of the two wetlands in the souk ahras region: burgas and tamtmat lakes, algeria - **Temimi Ines**
- PCE#P-2 Selection of forest gaps or meadows ? A case study of female red deer (*Cervus elaphus*) - **Saïd Sonia**
- PCE#P-3 Effect of hunting on habitat selection of red deer - **Saïd Sonia**
- PCE#P-4 Aging in the meadow viper, *Vipera ursinii ursinii* A long-term demographic study at the Mont-Ventoux (France) - **Tully Thomas**
- PCE#P-5 Repletion index, gonad index and condition factor of the pikeperch sander *Lucioperca* (L., 1758) of the Ghrib dam ( Northwestern Algeria) - **Belaifa Billel**
- PCE#P-6 Etude comparative de l'Arthropodofaune présente sur deux Lamiacées (*Lavandula stoechas* et *Marrubium vulgare*) dans les Monts de Tlemcen (Algérie). - **Damerdji Amina**
- PCE#P-7 Demography and viability of the Norwegian ortolan bunting - **Ducros Delphine**
- PCE#P-8 Diversity of malacologic fauna on four Lamiaceae in the region of Tlemcen (Northwest Algeria) - **Damerdji Amina**
- PCE#P-9 Flowering time overlap as a driver of plant community assembly? Response using field data from a Mediterranean ecological succession. - **Bouchet Diane**
- PCE#P-10 Decadal changes in NW Mediterranean rocky reefs: the power of observational ecology - **Gatti Giulia**
- PCE#P-11 Impact du climat sur la croissance d'une population relictuelle de Hêtre (*Fagus sylvatica*) - **Ouayjan Adib**
- PCE#P-12 Etude écologique des néréides (annélides polychètes) du littoral centre-est-algérien - **Younsi Mourad**
- PCE#P-13 Analyse systématique de la famille des Pamphagidae (Orthoptera, Caelifera) dans l'Est algérien - **Benkenana Naima**
- PCE#P-14 Diversity of seaweeds in the Egyptian Mediterranean coastal ecozones - **Farghaly Moh. El-Said**
- PCE#P-15 Janzen-Connell patterns are not the result of Janzen-Connell process: oak recruitment in temperate forests - **Deniau Maud**
- PCE#P-16 What does the shape mean? An exploration of the variation of wetland functional structure in response to community assembly mechanisms - **Deschamps Lucas**
- PCE#P-17 Spatial distribution of gorgonians in the Gulf de Lion - **Bramanti Lorenzo**
- PCE#P-18 Diversity and ecology of anthophorini of the Aures region (North-east of Algeria) - **Maghni Noudjoud**
- PCE#P-19 Effects of defaunation on ecological patterns of a long-lived conifer in South Brazil - **Vieira Willian**
- PCE#P-20 Interspecific interference competition at the resource patch scale: do large herbivores spatially avoid elephants while accessing water? - **Ferry Nicolas**
- PCE#P-21 Weed metacommunity dynamics in intensive farmland landscapes reveal complex interactions between local disturbance patterns and spatial dispersal - **Bourgeois Bérenger**



- PCE#P-22 Biodiversity and systematic of Osmiini bees (Hymenoptera; Apoidea; Megachilidae) in eastern of Algeria with three new species for this country - **Sihem Aguib**
- PCE#P-23 Agroforestry management in vineyard: effects on soil microbial communities - **Montagne Virginie**
- PCE#P-24 ADN environnemental et amphibiens : à quelle date échantillonner? - **Zucca Maxime**
- PCE#P-25 Pattern distribution of epizoic algae on the carapace of European Cistude *Emys orbicularis* (Linnaeus, 1758). A study from the Camargue, France - **Fayolle Stephanie**
- PCE#P-26 On the influence of scale, landscape features and environmental factors on the dynamic and structure of the Collembola *Cryptopygus antarcticus travei* on the sub-Antarctic Marion Island - **Rastorgueff Pierre-Alexandre**
- PCE#P-27 Une analyse biostatistique de la flore et de la végétation de quelques stations du matorral de la région de Tlemcen - **Bouayed Ibtisam Sarra**
- PCE#P-28 Impacts of climate on the demography of the rare and endemic *Centaurea corymbosa* - **Hadjou Belaid Asma**
- PCE#P-29 Example of east-Algerian coastal dune vegetation; plant communities and flora richness - **Hanan Khenouf**
- PCE#P-30 La phytodiversité et la dynamique des matorrals du sud-ouest Algérien - **Belhacini Fatima**
- PCE#P-31 Régime alimentaire de l' *Acanthodactylus scutellatus* (Audouin, 1829) (lacertidae) dans la région du Souf - **Mouane Aicha**
- PCE#P-32 Contribution à l'étude de l'herpétofaune de la palmeraie (sud-est algérien) - **Mouane Aicha**
- PCE#P-33 Biodiversité des micromammifères de la région d'Oued Souf (Algérie) - **Brahmi Karima**
- PCE#P-34 Inventaire des culicidés dans la région de Tizi-Ouzou - **Brahmi Karima**
- PCE#P-35 Diametric structure of the edge of a forest fragment in the Mendanha Municipal Natural Park, Rio de Janeiro, RJ, Brazil - **Vives Lise**

### Restoration ecology # Poster

- RE#P-1 Rôle de la symbiose mycorhizienne dans l'amélioration de la croissance du chêne liège (*Quercus suber*) en pépinière - **Ksentini Hana**
- RE#P-2 How the perennial grasses have a key role in the ecological restoration of degraded arid and pre-Saharan ecosystems? - **Mnif Fakhfakh Lobna**
- RE#P-3 Restoration of calcareous Mediterranean grassland vegetation following the construction of photovoltaic power stations - the PIESO project - **Bischoff Armin**
- RE#P-4 Ecological restoration of Bagaud Island (south-eastern France) eradicating invasive taxa: *Rattus rattus* and *Carpobrotus* sp. - **Buisson Elise**
- RE#P-5 Ecological community thresholds as a basis to set water quality targets for lake restoration - **Roubeix Vincent**
- RE#P-6 Eradications simultanées du rat noir (*Rattus rattus*) et des griffes de sorcière (*Carpobrotus* spp.) sur l'île de Bagaud (Parc national de Port-Cros, Provence, France) : conséquences sur les communautés d'Arthropodes - **Ponel Philippe**



- RE#P-7 Restoring soil quality to improve ecological integration of photovoltaic power stations - **Gros Raphael**
- RE#P-8 Microbiological sandy beach quality in western Algeria - **Amaria Matalah**
- RE#P-9 Assessment of natural and planted mangrove forest structures in selected sites in Central Visayas, Philippines - **Calapuan Jean**

### Soil ecology, biogeochemistry and plant-soil interactions # Poster

- SE#P-1 Climate change simulation in peatland: characterization and spatio-temporal variations of sphagnum peroxidase activities - **Criquet Steven**
- SE#P-2 The red mud deposits: characterization and impacts on the physico-chemical and biological qualities of soils - **Luglia Mathieu**
- SE#P-3 Effet de l'azote du sol sur la fécondité de cochenille *Parlatoria ziziphi* (Lucas, 1853) Homoptera : Diaspididae) sur clémentinier à Rouiba (Mitidja orientale- Algérie) - **Khaoula Aroua**
- SE#P-4 The Educational network on soil and plant ecology and management (EduSaPMan) - **John Lena**
- SE#P-5 Contrasting spatial patterns and ecological attributes of soil bacterial taxa across french national territory - **Karimi Battle**
- SE#P-6 Plant interactions as biotic drivers of intraspecific variability in leaf litter traits and decomposability of a foundation tree species (*Quercus petraea*) - **Henneron Ludovic**
- SE#P-7 Contrasted effects of soil disturbance in vineyards on soil biodiversity and associated service of organic matter decomposition - **Tolle Pauline**
- SE#P-8 Pratiques des villes et intercommunalités françaises en matière de préservation et de restauration des sols - **Lecuir Gilles**
- SE#P-9 Rehabilitation of a Mediterranean coal mining heap using the legume shrubs *Spartium junceum* - **Lafont-Schwob Isabelle**
- SE#P-10 Effects of increase in forest biomass export on soil fauna and associated functions - **Elie François**
- SE#P-11 Using of the snail *Helix aspersa* (mollusc, gasteropod) as bioindicator of soil pollution in north-east of Algeria: growth and biomarkers - **Sifi Karima**
- SE#P-12 Impact de la décharge d'Oum Teboursur le Lac Tonga - **Zaafour Mohamed Djilil**
- SE#P-13 Effect of sugarcane conversion to organic farming on the abundance and biodiversity of soil invertebrates in Martinique Island (French West Indies) - **Coulis Mathieu**
- SE#P-14 Infra-red Spectroscopy as a useful tool to assess water availability in litters - **Rebufa Catherine**
- SE#P-15 Moisture adsorption and soil wettability in relation to water vapor pressure in arid and tropical zones - **Amer Abdelmonem**
- SE#P-16 Typologie des cours d'eau méditerranéens du massif ultrabasique de Beni Bousera et des sites adjacents (NW, Maroc) - **Khadri Osama**

- SE#P-17 A consistent set of thermodynamic data in the system FeO-Fe<sub>2</sub>O<sub>3</sub>-H<sub>2</sub>O-CO<sub>2</sub>-HCl-SO<sub>3</sub> and application to estimation of stabilities of green rusts and fougérite - **Ben Nacib Jihaine**
- SE#P-18 Protection d'écosystème et étude hydrologique et Géochimique des eaux dans un sous bassin montagnard - la haute vallée de Tifnoute- (Haut Atlas Marocain) - **Kacem Lamyaa**
- SE#P-19 Evaluation de la qualité physico-chimique des eaux souterraines dans la région de Boumerdes - **Derbal Nassima**
- SE#P-20 Analyse floristique de la zone orientale de Chott Ech Chergui, Tiaret, Algérie - **Benkhattou Abdelkader**



## POSTER SESSION B : THURSDAY 27 OCTOBER

### Chemical Mediation in Ecosystems # Poster

- CME#P-1 Solvent free microwave extraction: an eco-friendly and rapid process for green isolation of essential oil from lemon grass - **Mohamed Nadjib Boukhatem**
- CME#P-2 Oil palm entomophilous pollination depends on an intersexual chemical mimicry - **Auffray Thomas**
- CME#P-3 Fractionation of Phenolic Compounds from *Sonneratia apelta* Pneumatophores and Test for Their Bioactivities - **Dao Van Tan**
- CME#P-4 Comparative effects of some ecdysteroid agonists on protein analysis in insects of different orders under in vivo conditions - **Kirane-Amrani Leila**
- CME#P-5 Interspecific interactions within the algal microbiota: quorum sensing and molecular communication between endophytic fungi and bacteria from brown algae - **Tourneroché Anne**
- CME#P-6 The deadly nightshade *Atropa belladonna*, a nightmare for frugivorous species, the honeymoon for the invasive fly *Drosophila suzukii* - **Baltora Sylvie**
- CME#P-7 Effects of various *Solanum* leaf extracts and of isolated glycoalkaloids on the behavior of two aphids, *Myzus persicae* and *Macrosiphum euphorbiae* - **Baltora Sylvie**
- CME#P-8 Effets des rejets urbains et agricoles sur la biologie de *Barbus setivimensis* (Poisson, Cyprinidé) du réseau hydrographique de Oued El-Harrach (Nord de l'Algérie) - **Fergani Hamida**
- CME#P-9 Metabolomics and chemical ecology assays to understand mangrove ecosystem functioning in Vietnam - **Bousquet-Mélou Anne**
- CME#P-10 Chemical composition, antioxidant properties Lichen *Roccella phycopsis* Ach (Roccellaceae) in Northern Algeria - **Rafika Brakni**
- CME#P-11 Study of the chemical interactions in lavender decline - **Nicole Florence**
- CME#P-12 Direct and indirect effects of prescribed burning on secondary metabolism of three Mediterranean pine species - **Ormeno Lafuente Elena**
- CME#P-13 Volatile organic compounds emissions from cattle slurry on an agricultural soil - Lafouge Florence
- CME#P-14 Diagnostic and qualitative assessment of the extent of mercury contamination of surface water dam Zit-Emba wilaya of Skikda, North Eastern Algeria - **Belhadj Mohamed Zine**
- CME#P-15 Analyse des composés volatiles de deux plantes aromatiques endémiques par micro-extraction en phase solide (SPME) couplée par GC/MS - **Malika Barkat**
- CME#P-16 Effects of moulting hormone agonists (RH-5849) in *Ephestia kuehniella*: pupal development and reproductive capacity after treatment of males - **Selmane-Meskache Rania**
- CME#P-17 Multiple origin of pheromone precursors in *Drosophila melanogaster* - **Wicker-Thomas Claude**
- CME#P-18 Ozone uptake and deposition on soil surfaces - **Ciuraru Raluca**

- CME#P-19 Do litter-mediated chemical interactions play a role in Mediterranean oak regeneration? - **Gavinet Jordane**
- CME#P-20 Ecological responses and metabolism changes of *Lessonia spicata* upon grazing by herbivores - **Leblanc Catherine**
- CME#P-21 Effects of inhibitor of the angiotensin converting enzyme on the quality and quantity of ovarian proteins of the Mediterranean flour moth, *Ephestia kuehniella* Zeller - **Yezli-Touiker Samira**
- CME#P-22 The identification parameters of a chemostat by the LSCR method - **Borsali Salima**
- CME#P-23 Pest infestation and limited nutrient supply modify tomato leaf volatiles - **Becker Christine**
- CME#P-24 Ecology of Arsenic release and bioaccumulation (by algae, forage and food plants) in eutrophic lakes, harbors and rice fields - **Charlet Laurent**
- CME#P-25 Characterization and potential of naphtho-gamma-pyrone crude extract obtained from *Aspergillus niger* grown under solid state fermentation - **Carboue Quentin**
- CME#P-26 Brood of a chemically mimetic social parasite does not mimic host brood - **Bagnères Anne-Geneviève**
- CME#P-27 Toxic effects of Fenbutatin oxyde on *Paramecium* sp. with special emphasis on growth inhibition and induction of oxidative stress - **Benbouzid Houneida**
- CME#P-28 Heavy Metals in water and tissues of Cyprinids fish from K'sob Reservoir (M'Sila - Algeria) - **Fateh Mimeche**

- CME#P-29 Valorisation de la luzerne et du sorgho dans le traitement de sols et de boues pollués par les métaux lourds - **Amel Akli**

### Conservation biology, policies and management # Poster

- CB#P-1 Les macroinvertébrés benthiques comme bioindicateurs pour évaluer l'état de santé de oued Tafna (Algérie) - **Mouna Hafiane**
- CB#P-2 Phytodiversité pré-forestière de la zone Ouest du Mont Chenoua - **Boulenouar Yacine**
- CB#P-3 SACOLEVE - Spatial and temporal Adaptation of a traditional Mediterranean fishery facing Regional Change: COmbining history and ecoLOGY to study past, prEsent and future of sponge harVEsting - **Fourt Maïa**
- CB#P-4 Micropropagation of *Juniperus thurefera* by axillary shoot proliferation - **Khater Nadia**
- CB#P-5 Ecologists and landscape designers: How to develop a better operational collaboration ? - **Bonthoux Sébastien**
- CB#P-6 Citizen Science for CIGESMED: involving divers in marine ecological monitoring - **Gatti Giulia**
- CB#P-7 Bats and road collisions: building a risk prediction model incorporating landscape variables - **Roemer Charlotte**
- CB#P-8 Etude phytoécologique et préservation de la biodiversité de la zone humide de la Macta (Algérie occidentale) - **Belgherbi Benamar**





- CB#P-9 Genetic consequences of long-term isolation for the last french population of *Eryngium viviparum*, and implications for conservation - **Pauline Rasclé**
- CB#P-10 Biodiversity indicators based on several taxons help identify the range of pressures on coastal dunes - **Revers Frédéric**
- CB#P-11 A rapid assessment method for assessing wetland functions - **Gayet Guillaume**
- CB#P-12 From one engagement to another: motivations behind pro-biodiversity behaviours - **Leve Marine**
- CB#P-13 Phylogeographic structure wiped out, species or subspecies status: what matters for conservation of the South African Oribi - **Rastorgueff Pierre-Alexandre**
- CB#P-14 Evaluation de la qualité de l'eau et son impact sur l'environnement: exemple de l'écosystème lac des oiseaux - Algérie - **Toumi Abir**
- CB#P-15 Détermination des zones marines potentielles importantes pour la conservation des oiseaux à l'ouest de l'Algérie - **Taibi Ahmed**
- CB#P-16 Inferring the different facets of coralligenous biodiversity from imagery processing - **Deter Julie**
- CB#P-17 Etude Bio-écologique de la sardine exploitée dans la zone de Casablanca - **Abderrazik Wahbi**
- CB#P-18 Etude de la croissance d'*Engraulis encrasicolus* (Linnaeus, 1758) de la zone Atlantique centre marocaine (Cap Cantin-Cap Boujdor) - **Baali Ayoub**

## Ecophysiology # Poster

- E#P-1 Comprendre l'impact du changement climatique sur la biodiversité : l'Observatoire des Saisons Provence - **Gachet Sophie**
- E#P-2 Physicochemical characterization of interactions "Metal - Algae" - **Elhadj Zoubida**
- E#P-3 Maternal corticosterone deposition in avian yolk: influence of laying order and group size in a joint-nesting, cooperatively breeding species - **Schmaltz Gregory**
- E#P-4 Concentration en cation des feuilles et capacité biochimique de la photosynthèse : Relation physiologique ou écophysologique ? - **Maire Vincent**
- E#P-5 Size structure and fertility of *Macrobrachium vollenhovenii*, giant freshwater prawn medium Ouémé delta (southern Benin) - **Gangbe Luc**
- E#P-6 Influence des paramètres écologiques sur la micro-phytodermie de *Pistacia lentiscus* dans le Nord occidental oranais de l'Algérie - **Tirse Malika**
- E#P-7 Impacts des activités anthropiques sur la qualité de l'eau et des poissons pêchés dans le complexe lagunaire lac Nokoué lagune de Porto-Novo - **Vodougnon Hamil Bonard**
- E#P-8 The effect of temperature on growth performance and metabolism in juvenile Arctic charr, *Salvelinus alpinus* L. - **Beuvarde Christian**
- E#P-9 Variabilité génétique et tolérance à la sécheresse des provenances Méditerranéennes de pin pignon et de pin d'Alep - **Benmna Amira**

- E#P-10 Adverse effects on fertility in male rat after exposure to a mixture of endocrine disrupting pesticides - **Aiche Mohamed Amine**
- E#P-11 Thermal window for spawning sardine (*Sardina pilchardus*) in the south area off the Moroccan Atlantic coast - **Abdelouahab Hinde**
- E#P-12 Modélisation du fonctionnement de la végétation Mesure des Echanges gazeux et Flux du CO2 dans une communauté végétale - **Larouk Chafia**
- E#P-13 An immunoenzymatic method to understand winter phenology and predict temperate trees responses to climate change - **Duputié Anne**
- E#P-14 Bioecology of donax trunculus (mollusc, bivalve) bioindicator species of pollution of Annaba gulf (Algeria): growth and index condition - **Sifi Karima**
- E#P-15 Méta-analyse de l'influence des expositions professionnelles aux solvants sur les paramètres du sperme - **Perrin Jeanne**
- E#P-16 Effect of anthelmintics on plant proteome - **Podlipna Radka**
- E#P-17 Biotransformation of flubendazole in *Arabidopsis Thaliana*: potential tool for detoxification in environmental - **Stuchlikova Lucie**
- E#P-18 Lack of information received by a French women cohort regarding prevention against exposure to reprotoxic agent during pregnancy - **Courbiere Blandine**
- E#P-19 The cnidarian *Hydra attenuata*, a pertinent freshwater animal for multi-scale biomarker investigations to assess chronic toxicity: a case study with Disperse Red 1 - **Moreau Xavier**
- E#P-20 Association entre anomalies spermatiques et environnement professionnel chez les hommes consultant pour infertilité de couple - **Sari-Minodier Irene**
- E#P-21 Assessment of photosynthetic resilience in Scots pines after a surface fire - **Gette Irina**
- E#P-22 L'exposition subaiguë à de faibles doses de la métribuzine induit des altérations métaboliques chez les rats. - **Yahia Elkhansa**
- E#P-23 Comparative study of two low toxicity insecticides on the testicles of a major pest in stored products, *Ephestia kuehniella zeller* - **Selmane-Meskache Rania**
- E#P-24 Anti-implantation effect of the fungicides maneb and chlorothalonil in the female of rabbit and rat - **Mallelem Leila**
- E#P-25 In vitro toxicity of titanium oxide nanoparticles in *daphnia magna* upon chronic aqueous exposure - **Djekoun-Bensoltane Samira**
- E#P-26 Evaluation of the harmful effects of lead on several biomarkers among factory workers of batteries - **Mansouri-Bentayeb Ouarda**
- E#P-27 Ameliorative effect of (*Triticum durum*) on thyroid and reproductive functions of males albino rats induced with lead acetate - **Mansouri-Bentayeb Ouarda**
- E#P-28 The fungicide methyl thiophanate causes infertility in male rabbit *Cuniculus lepus* - **Mallelem Leila**
- E#P-29 The molecule preserve environment: Effects of inhibitor of the angiotensin converting enzyme on development of the Mediterranean flour moth *Ephestia kuehniella Zeller* - **Yezli-Touiker Samira**





## Evolutionary ecology # Poster

- EE#P-1 Challenges in estimating heritability of density-dependent polyphenism: insights from measured and simulated data from phase traits in the desert locust - **Jourdan Hélène**
- EE#P-2 Annual-ring width plasticity to climate of individual *Abies alba* trees along three altitudinal gradients - **Pichot Christian**
- EE#P-3 Testing the causal relationships proposed by the parental care model of the evolution of endothermy (Farmer, 2000) - **Clavijo-Baquet Sabrina**
- EE#P-4 Why mating ? Modelling the spread of a sex-strike allele in haplodiploids - **Tilquin Anaïs**
- EE#P-5 Integrative phylogeography of a widespread pest rodent in Morocco using genetic and morphological data - **Bouarabia Oussama**
- EE#P-6 Holocene biodiversity changes in Pontocaspian planktonic communities - **Sala-Perez Manuel**
- EE#P-7 Life-history trait variation among central and marginal of plant populations - **Latron Mathilde**
- EE#P-8 Distribution of the White Stork (*Ciconia ciconia* L. 1758) in Algeria - **Mammeria Aicha Beya**
- EE#P-9 Characterization of Habitat of *Rhamnus alaternus* L. at the Jebel Tessala (North-Western Algeria) - **Benchiha Walid**
- EE#P-10 Phenotypic plasticity in reproductive traits of *Helix aperta* snails sampled during or after aestivation - **Tafoughalt-Benbellil Saida**

## Genetics and molecular ecology # Poster

- GME#P-1 Assessment of genotoxic effects of a fungicide (propiconazole) on green frog tadpoles using alkaline-single-cell gel electrophoresis (comet assay) - **Bourenane Naziha**
- GME#P-2 Primary evaluation efficacy of different dna barcodes for identification of medicinal plants in vietnam - **Pham Thi Thu Hang**
- GME#P-3 moléculaire des Caractérisation *Miniopterus schreibersii* (Chiroptère: Miniopteridae) de l'Algérie. - **Derouiche Louiza**
- GME#P-4 A panel of microsatellites to individually identify feral cats from their scats: application to invasive mammal studies on islands - **Palmas Pauline**
- GME#P-5 The production and validation of metabarcoding data for studying the diet of invertebrate-eaters - **Meglecz Emese**
- GME#P-6 The Effect of Ocean Acidification on the Ability of the *Nereis* Species to Genetically Adapt - **Alsheikh Noha**

## Landscape ecology # Poster

- LE#P-1 Land-use change in the Mediterranean environment: the case of the geosites of Murge (Apulia - Southern Italy) - **Greco Roberto**
- LE#P-2 NDVI estimation using normalized reflectance of Himawari-8/AHI data - **Seong Noh-Hun**
- LE#P-3 Estimation of Gross Primary Production using SPOT/VEGETATION over Korea - **Kim Honghee**



- LE#P-4 Ecological analysis of desertification processes in semi arid land in algeria using satellite data - **Zegrar Ahmed**
- LE#P-5 Assessing the importance of field margin components and complexity in providing overwintering sites for flying predators - **Blaix Cian**
- LE#P-6 Detecting riparian forest in tropical forest: using canopy height raster LIDAR data - **Rolle Laurie**
- LE#P-7 Variation of abundances of oilseed rape (OSR) pollen beetle, *Meligethes aeneus* and its parasitoid, *Tersilochus heterocerus* depending on parameter to woodlands, grasslands and OSR. - **Juhel Amandine**
- LE#P-8 Effet de lisière: lequel? - **Deconchat Marc**
- LE#P-9 Contribution de la teledetection dans l'étude de la dynamique du couvert vegetal dans un milieu steppe, cas de la wilaya d'el bayadh - **Assia Saad**

### Macro-ecology & biogeography # Poster

- MEB#P-1 Maps of biogeographical ignorance for species distribution models - **Tessarolo Geiziane**
- MEB#P-2 Integrative phylogeography of a widespread pest rodent in Morocco using genetic and morphological data - **Bouarakia Oussama**
- MEB#P-3 Niche overlapping points to ecological divergence between populations of *Abies pinsapo* at both sides of the Mediterranean Sea - **Gonzalez-Hernandez Antonio**
- MEB#P-4 A new approach to evaluate the performance of fire datasets from remote sensing: a functional diversity index-based framework - **Messias Pereira Nogueira Joana**

- MEB#P-5 Citizen science monitoring programs as a tool to reveal biogeographical patterns: the case of floricolous ants along latitudinal and urbanization gradients - **Vergnes Alan**
- MEB#P-6 Water content monitoring using satellite data over the forests in Korea - **Kwon Chaeyoung**
- MEB#P-7 A Correction of Satellite-based Vegetation Index using Temporal Variability Pattern - **Jin Donghyun**
- MEB#P-8 Persistent trade-off between tree avoidance and tolerance traits to surface fires across ecological scales - **Frejaville Thibaut**
- MEB#P-9 Spatial scales of variation within natural boreal forest landscapes in northern Finland and north-eastern Quebec - **Kulha Niko**
- MEB#P-10 Late Miocene diversification of the genus *Hydrochus* (Coleoptera, Hydrochidae) in the west Mediterranean area - **Benayadi Mohammed**
- MEB#P-11 Inferring refugia and migration process of a Mediterranean thermophilous shrub in response to past climate changes - **Migliore Jérémy**

### Networks and biotic interactions # Poster

- NBI#P-1 Les sites à terfesses des dunes littorales du nord-est algérien : Interaction sol-plantes-champignons - **Dafri Ahlem**
- NBI#P-2 Spatiotemporal study of seed dispersal by camel - **Trabelsi Hafida**
- NBI#P-3 Caractérisation des bactéries isolées à partir des nodules de *Medicago littoralis* Rhode poussant autour du lac salé Fetzara (Nord-est algérien) - **Fetnaci Imene**





- NBI#P-4 Does the robustness of vertebrates' trophic webs vary across Europe? - **Barros Ceres**
- NBI#P-5 Etude du régime alimentaire de deux Caelifères (Orthoptères) *Calliptamus barbarus* et *Sphingonotus rubescens* dans des stations à Honaine région de Tlemcen-Algérie - **Hassani Faïçal**
- NBI#P-6 Graph approach of heterogeneous data, the new possibilities developed by the IndexMed consortium for data mining in Mediterranean ecology - **David Romain**

### Paleoecology # Poster

- P#P-1 The use of the European Pollen Database tools in Ecology and Climate studies - **Leydet-Barbier Michelle**
- P#P-2 Late Holocene history of forests at both sides of the Western Mediterranean (Iberian Peninsula-Morocco) - **Alba-Sanchez Francisca**
- P#P-3 Vegetation history, climate dynamics and cultural change in Malta: a Holocene perspective - **Gambin Belinda**
- P#P-4 Changes in diatom assemblages in lake Abiyata (Ethiopia) at the termination of the African Humid Period (5 cal. kyr BP): potential effect of a salinity threshold - **Roubeix Vincent**
- P#P-5 Aleppo pines installed on coal mine waste dumps grow much better than expected - **Guibal Frederic**
- P#P-6 Early cereal cultivation and pastoralism in south-western Corsica 7600 years ago - **Andrieu-Ponel Valérie**

- P#P-7 Dung-beetle assemblages as possible indicators of pastoralism in Holocene records from high mountains in Europe and the Near East - **Ponel Philippe**
- P#P-8 Toward a paleo-functional ecology to tackle better the key challenges of conservation - **Robin Vincent**

### Parasites, pathogens and disease # Poster

- PPD#P-1 Identification of ectoparasites of Cattle egret *Bubulcus ibis* in North East of Algérie - **Abdessamed Amina**
- PPD#P-2 Dynamique spatio-temporelle de cochenille farineuse dans les vignobles de la Mitidja en Algérie - **Bissaad Fatima Zohra**
- PPD#P-3 Fungi reduce preference and performance of insect herbivores on infected plants - **Fernandez-Conradi Pilar**
- PPD#P-4 How olive varieties and substrate characteristics can determine the diversity of plant-parasitic nematode communities infesting olive nurseries in Morocco? - **Ait Hamza Mohamed**
- PPD#P-5 Existence of *Ralstonia solanacearum* phylotype II in Indonesia - **Arwiyanto Triwidodo**
- PPD#P-6 Virological and immunological surveys during Puumala virus experimental infections of bank voles (*Myodes glareolus*) from endemic and non-endemic regions - **Dubois Adélaïde**
- PPD#P-7 Ecologie ectoparasitaire de l'hirondelle rustique (*hirundo rustica rustica*) dans un milieu urbain du nord est algérien - **Sakraoui Rym**

- PPD#P-8 Study of Antifungal activity of Armoise herbe blanche of the Ghardaia in different type of Fusarium - **Mehani Mouna**
- PPD#P-9 Hidden microbial diversity within free-living amoebae isolated from a drinking water network - **Bouchon Didier**
- PPD#P-10 Isolement et identification des champignons entomopathogènes de la mouche méditerranéenne des fruits (*Ceratitis capitata*) - **Hallouti Ayoub**
- PPD#P-11 Infestation of *Ligula intestinalis* (tapeworm: Cestoda) in Cyprinids fish lake dam of Keddara (W. Boumerdes, Algeria) - **Hadou Ghania**
- PPD#P-12 Détection moléculaire des leishmanies à partir du genre *Phlebotomus* (Diptera, Psychodidae) : tendance vers la régression de la leishmaniose à Constantine (Nord-Est algérien)? - **Khalida Frahtia**
- PPD#P-13 Changes in parasite community structure and assemblages during invasions: the cases of house mouse and black rat in Senegal - **Diagne Christophe**
- PPD#P-14 Detection of deformed wing virus in honey bees (*Apis mellifera* L.) Colonies infested with mite (*Varroa destructor*) in Algeria - **Ayad-Loucif Wahida**
- PPD#P-15 Integrative investigation of an unprecedented epizootic event affecting endemic sponges of Lake Baikal - **Ereskovsky Alexander**
- PPD#P-16 Mesostigmata and Ctenocephalides in nest of the white stork *Ciconia ciconia* at first time in Algeria - **Mammeria Aicha Beya**

- PPD#P-17 Inventaire des arthropodes parasites des animaux d'élevage et étude de quelques parasitoses bovines dans la région de Tizi Ouzou (Bouzeguène et Mekla) - **Brahmi Karima**

### Socio-ecosystems and ecological services # Poster

- SEES#P-1 Mitigating environmental and public health risk associated with hydraulic fracturing in the United Kingdom: preliminary recommendations, with reference to the analogous experience of the United States - **Aczel Miriam**
- SEES#P-2 From traditional knowledge to innovation - **Botelho Lissandro**
- SEES#P-3 Biodiversity-based ecosystem services in vineyards: VineDivers project across Europe - **Guernion Muriel**
- SEES#P-4 Grape yield and quality are influenced by vegetation cover management in vineyards - **Tolle Pauline**
- SEES#P-5 Potential of Aleppo pine as a vegetative barrier to airborne metal and metalloids: diachronic and synchronic studies - **Laffont-Schwob Isabelle**
- SEES#P-6 Valonia oak forest of Xeromero? Aetolakarnania, the largest silvopastoral system of the species in Greece and in the Mediterranean basin: ecological and socio-economical aspects - **Andreas Papadopoulos**

### Urban ecology # Poster

- UE#P-1 Value chains of peri-urban wetlands ecosystems and their roles in the wellbeing of urban poor in a coastal metropolis in Bangladesh - **Fatema Nuzhat**





- UE#P-2 Effects of urbanization on *Daphnia ephippia* - **Ringot Gabrielle**
- UE#P-3 How spider orbweb efficiency can inspire new anthropic networks - **Josselin Didier**
- UE#P-4 Ecologie alimentaire et sélectivité des proies chez l'hirondelle rustique (*Hirundo rustica rustica*) dans un milieu urbain du nord est algérien - **Dadci Walid**
- UE#P-5 Effects of small-scale and landscape level heterogeneity on small mammal assemblages in peri-urban and urban parks - **Isselin Francis**
- UE#P-6 Multiscale determinants of plant communities present on urban pavements, a first assessment - **Bonthoux Sébastien**
- UE#P-7 Trophic interactions of two predators in contrasted environments - **Castañeda Irene**
- UE#P-8 Which impacts of domesticated honeybee introductions and management practices on the pollination ecosystem service in urban habitats? - **Ropars Lise**
- UE#P-9 Variation d'abondance du plancton aérien : une comparaison 1990-2013 - **Zucca Maxime**
- UE#P-10 Intégrer la biodiversité à l'urbanisme, l'aménagement et la construction - **Barra Marc**
- UE#P-11 Impact of mycorrhization on plant response to soil pollution by heavy metals - **Genet Patricia**
- UE#P-12 Impact of urbanization on ecosystems forest in northern Algeria - **Boukraa Fouzia**

# OPPA JUNIOR



L'Orchestre Philharmonique du Pays d'Aix Junior (OPPAJ)<sup>2</sup> est né d'une volonté d'offrir à tous les jeunes musiciens du territoire, dès leur 4<sup>ème</sup> année d'instrument et jusqu'à la fin de leur cycle 3, la possibilité d'avoir une pratique musicale au sein d'un grand orchestre symphonique.

Cette volonté est partie du constat que ce **programme de formation orchestrale** manquait sur le territoire et elle se concrétisa grâce à une rencontre déterminante avec le chef de l'**Orchestre Philharmonique du Pays d'Aix (OPPA), Jacques CHALMEAU**, bien connu sur le territoire puisque chargé de la mission de porter la musique symphonique jusque dans les coins les plus reculés, il s'y produit hiver comme été avec son orchestre

Sollicité par Sophie VALLAURI, présidente de l'association **Saisis ton kairos**, celui-ci a tout de suite accepté de mettre son énergie et ses compétences au service de jeunes musiciens amateurs, entraînant derrière lui l'adhésion des musiciens d'orchestre professionnels qu'il dirige et celle des collectivités territoriales.

Salué par la presse, **l'OPPAJ réunit désormais jusqu'à 100 jeunes musiciens de 10 à 20 ans issus des écoles de musique et conservatoires** et se produit en concert sur invitation de communes ou de grands théâtres comme le théâtre TOURSKY, le Grand Théâtre de Provence ou l'Opéra de Marseille.

Le succès et la force de cet orchestre de jeunes viennent de ses conditions de travail et des concerts qu'il donne. En effet, les musiciens de l'OPPAJ:

- sont sélectionnés lors d'une audition de recrutement
- travaillent des œuvres originales et non simplifiées
- sont encadrés par des tuteurs tous musiciens d'orchestre (l'Orchestre Philharmonique du Pays d'Aix dans lequel les petits de l'OPPAJ rêvent de rentrer un jour...!) et souvent aussi pédagogues
- sont dirigés sous la baguette d'un chef professionnel qu'ils entendent régulièrement sur le Pays d'Aix ou lors de prestigieux festivals comme celui de la Roque d'Anthéron.
- se produisent en concerts sur tout le territoire, à l'image de leur grand frère l'OPPA Cette formation musicale est une initiative quasi unique en France contrairement à ce qu'on peut observer en Allemagne ou dans les pays Anglo-saxons.

Les répétitions se déroulent sur Aix en provence **trois fois par an** pendant les vacances scolaires sous la forme de stages de **cinq jours consécutifs** au cours desquels tous les membres de **l'OPPA Junior s'exercent pendant 7H30 quotidiennement** en partiels, tutti et travail individuel, dans une ambiance agréable ponctuée de parties de ping-pong et de moments de détente inoubliables. Il en ressort du pur bonheur pour les apprentis musiciens.

2 [www.oppajunior.com](http://www.oppajunior.com)



## DELEGATE INFORMATION

### Venue

Le Palais du Pharo / Pharo congress center  
58 Boulevard Charles Livon - 13007 Marseille  
<http://palaisdupharo.marseille.fr/>

### Getting around Marseille

Marseille public transportation network is named RTM. There are 2 metro lines, 3 tram lines and many bus lines. Metros run from 5 am to 12:30 am and trams from around 5 am to 12 or 1 am depending on the line. There are no night buses past 12:30 am.

For more information: <http://www.rtm.fr/>

### Société Française d'Ecologie

Throughout the event, SFE representatives can be found at the registration desk or at their stands in the Exhibition Hall.

### Badges

For security purposes, please always wear your badge inside the Palais du Pharo and Gastaud amphitheater as well as on the Terrasse.

### Refreshments

Tea and coffee will be available in Espace Vieux Port 1000 during the "coffee breaks" (see daily programme).

### Lunches

Lunches will be served in Espace Vieux Port 1000 between the designated times (see daily programme).

### Cloakroom

The cloakroom will be located close to the west gate (you need to go around the Auditorium, the cloakroom is behind). It will be open for the duration of the meeting but will close 30 minutes after the last event of the day.

### Internet

Wifi is provided throughout the convention center.



## Programme

For those who did not request the printed programme, please check the programme online on our website. You can download a PDF version there.

## Electronic devices

As a courtesy to presenters and other delegates we ask the attendees to switch off their electronic devices (mobile phones and laptops) before entering any session. Seats are provided within the conference center elsewhere than in the rooms dedicated to the scientific talks.

## Speaker room

The speaker room is located in the 'Galerie Voutée 1 or 2' straight behind the exhibition hall (check the map page 17) and is fully equipped for speakers to submit and review their presentations. Speakers must bring their presentations (pdf and ppt(x) formats accepted) to the room at least two hours before the beginning of the session in which they will present. Technical staff will be on hand to help with any issues. Opening hours: Tuesday 7 am - 8 pm, Wednesday 8 am - 5 pm, Thursday 8 am - 5 pm

## Time zone

Marseille is GMT = + 1 hour.

## First aid

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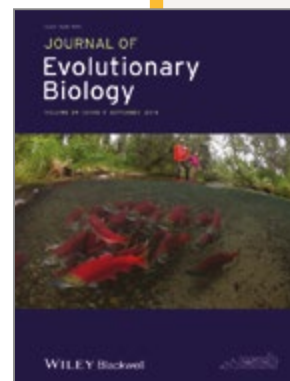
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# LIGNE POLITIQUE SFE 2016-2020

SOCIÉTÉ FRANÇAISE D'ÉCOLOGIE



## Qu'est-ce que l'écologie scientifique ?

L'écologie scientifique étudie les relations entre les êtres vivants et leur environnement, et les interactions des êtres vivants entre eux. L'écologie scientifique s'intéresse à l'étude de la distribution et de l'abondance des organismes, aux liens fonctionnels qu'ils tissent entre eux, à la structure et au fonctionnement des écosystèmes qu'ils constituent, ainsi qu'aux mécanismes qui régissent la genèse, le maintien et l'évolution de la diversité des organismes.

L'écologie scientifique nous renseigne également sur les interdépendances qui relient l'être humain à l'ensemble des écosystèmes de la Terre. Grâce à une meilleure compréhension de ces liens, elle nous aide à mieux prévoir les conséquences de nos actions sur la biosphère et sur sa contribution à notre bien-être. Les observations faites en écologie éclairent donc la société dans les actions qu'elle entreprend pour préserver ce bien-être.

La Société Française d'Écologie (SFE) a été fondée en 1968. Il s'agit d'une société savante dédiée à l'écologie scientifique. Association à but non lucratif reconnue d'utilité publique, elle est membre de l'European Ecological Federation (EEF) et de l'International Association for Ecology (INTECOL).

## Société Française d'Écologie : mission et vision

L'objectif de la SFE est d'encourager le développement de la discipline intégrative qu'est l'écologie scientifique sous tous ses aspects, de l'écologie évolutive à l'écologie fonctionnelle, dans des ouvertures pluridisciplinaires de tous ordres. Ses centres d'intérêt vont des aspects les plus fondamentaux aux plus finalisés.

Sa vision est celle d'un monde inspiré, informé et influencé par l'écologie scientifique. Elle se conçoit comme une société savante en dialogue avec la société. Elle reconnaît l'élégance de l'écologie scientifique en tant que source d'inspiration et vecteur de compréhension de la nature.

Sa mission est de soutenir l'acquisition de nouvelles connaissances, leur partage et leur promotion pour favoriser des actions compatibles avec les limites planétaires mises en évidence par l'écologie scientifique elle-même.

Son ambition est de représenter l'ensemble de la communauté des écologues de France, d'être un interlocuteur privilégié pour établir des actions conjointes avec d'autres sociétés et associations et, enfin, de faciliter le dialogue entre connaissances et savoirs, un échange impliquant scientifiques, gestionnaires, décideurs et usagers.

Ses valeurs sont celles d'une société savante qui, s'appuie sur des faits validés par l'analyse scientifique, se veut une force de proposition positive au bénéfice de la société, prône l'ouverture d'esprit, reste à l'écoute des idées nouvelles, est tournée vers l'avenir, s'appuie sur la diversité et est gouvernée de façon indépendante, transparente et efficace.





## Priorités 2016-2020

Les cinq priorités de la SFE pour la période 2016-2020 ont été définies à partir de retours d'expériences et de discussions des membres de son Conseil d'Administration, ainsi qu'à la suite d'une large diffusion d'un questionnaire auprès des membres et sympathisants de la SFE au printemps 2015. Nos priorités sont de :

1. Favoriser la diffusion des avancées en écologie scientifique au sein de la communauté des écologues ;
2. Promouvoir l'écologie scientifique auprès de la société ;
3. Favoriser la réflexion sur les défis actuels en écologie scientifique ;
4. Favoriser l'émergence et le développement de vocations et talents dans le domaine de l'écologie scientifique ;
5. Améliorer le fonctionnement de la SFE et sa représentativité.

### 1. Favoriser la diffusion des avancées en écologie scientifique au sein de la communauté des écologues en :

Organisant tous les deux ans un colloque d'écologie. Plus qu'un point de rencontre entre les membres de la communauté des écologues, c'est aussi l'occasion d'établir ou de renforcer les liens avec d'autres sociétés d'écologie à travers la co-organisation de symposiums ou de rencontres, telles que le colloque BES-SFE (Lille, 2014), co-organisé avec la *British Ecological Society* (BES). Les prochains rendez-vous sont fixés à Marseille en 2016 et à Rennes en 2018.

Proposant chaque année des journées de réflexion, des conférences et des ateliers autour d'un enjeu de recherche ou environnemental important, en facilitant tout particulièrement la contribution de jeunes chercheurs à ces événements.

Encourageant le développement de groupes thématiques qui facilitent les échanges au sein de sous-disciplines de l'écologie et permettent d'organiser des journées à thèmes sur les défis plus spécifiquement associés à ces sous-disciplines ainsi que des journées thématiques à l'interface entre sous-disciplines.

### 2. Promouvoir l'écologie scientifique auprès de la société en :

Diffusant des textes de vulgarisation des connaissances vers le grand public, via des textes en lignes tels que «Les regards sur la biodiversité», la diffusion de documentaires produits par ses membres, la promotion des initiatives de ses membres répartis sur toute la France et l'implication des médias régionaux et nationaux aux événements organisés par la SFE.

Renforçant le poids de l'écologie scientifique sur les scènes médiatique et politique, via l'attribution de prix, via la mise à disposition d'une base de données d'experts pour les médias et les décideurs politiques ou via la diffusion d'appels en direction des acteurs de la société, en particulier les acteurs politiques.

Imaginant les passerelles et interfaces pour relier le monde académique à la société. Par exemple en proposant tous les 2 ans une bourse «écologie impliquée». Mais aussi en ouvrant la discussion autour de l'écologie scientifique aux gestionnaires de l'environnement (symposium dédié dans les conférences) et aux citoyens (donner du crédit aux sciences participatives).

### 3. Favoriser la réflexion sur les défis actuels en écologie scientifique en :

Facilitant la réflexion sur ce que ses membres perçoivent comme les grands défis de connaissance actuels en écologie scientifique.

Alimentant, grâce à ce baromètre des défis, les échanges formels et informels que nous avons avec les instances de la recherche et les porteurs d'enjeux qui définissent les politiques de recherche au service de la société.

### 4. Favoriser l'émergence et le développement de vocations et talents dans le domaine de l'écologie scientifique en :

Proposant le service Ecodiff pour mettre en contact offres et demandes de stages et d'emplois et annoncer les événements intéressant l'ensemble de la communauté de l'écologie scientifique française (colloques, séminaires, parutions, etc.).

Offrant à des écologues en devenir des bourses de terrain pour faciliter la réalisation de projets scientifiques personnels.

Contribuant, à travers la remise de prix, à faire connaître des parcours alliant esprit de découverte, passion et engagement dans la formation, pour qu'ils soient source d'inspiration.

Facilitant le développement de l'activité professionnelle de nos plus jeunes membres par l'organisation d'ateliers thématiques (comment mieux publier, rechercher des financements, emploi et perspectives de carrière), l'utilisation et l'adaptation des outils mis en place par *l'International Network of Next-Generation Ecologists* (INNGE) et l'implication des groupes thématiques dans l'enseignement et l'émergence des vocations.

Mettant en place des ressources/outils pédagogiques destinés aux enseignants chargés d'enseigner l'écologie scientifique à différents niveaux pour les aider à traiter des questions spécifiques liées soit à l'actualité soit à des questions fondamentales en écologie.

### 5. Améliorer le fonctionnement de la SFE et sa représentativité en :

Favorisant une bonne représentativité de la diversité du monde de l'écologie scientifique au sein de ses membres et de son conseil d'administration.

Encourageant une meilleure représentativité spatiale en s'appuyant sur des écologues-relais en particulier dans les différentes régions de France.

Élargissant sa base d'adhérents (personnes physiques et morales) en insistant sur l'engagement clair que constitue déjà une adhésion en tant que telle.

Sondant nos membres pour faire remonter leurs attentes et leurs suggestions pour une Société Française d'Écologie toujours plus apte à répondre à sa mission.

Informant régulièrement l'ensemble de nos membres des activités de la SFE, de son conseil d'administration et de ses membres.

Cherchant d'autres sources de financement permettant de renforcer ses actions auprès de bailleurs publics et privés dans le respect de sa vision et de ses valeurs.



# SFE PHOTO CHART

## Bureau

**Président**

*J.-L. Martin\**  
CEFE  
CNRS  
*Dynamiques communautés*  
Montpellier

+Bourse "Action"  
+ Ligne politique

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Univ. Toulouse  
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Paris

+ Regards  
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Lille

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*Y. Piquot\**  
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*Ecol. évolutive*  
Lille

+Colloques

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Sophia Agrobiotech  
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*Ecophysiologie végétale*  
Nice

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+ Bourse Terrain  
+Prix

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Andromède  
océanologie ISEM  
*Ecologie marine*  
Montpellier

+ Groupes Thém.  
+Regards  
+Bourses +Prix

## Adhésions



*E. Forey\**  
Ecodiv / URA IRSTEA  
Univ. Rouen  
*Interactions plantes - faune sol*  
Rouen



*C. Vacher\**  
UMR BioGeCo  
INRA  
*Interactions Biotiques*  
Bordeaux

## Ecodiff / Site internet



*J.-O. Irsson\**  
Obs. Océanol.  
Villefranche s/Mer  
*Océanographie biologique*  
Nice



*J.-C. Clément*  
LECA  
Univ. J. Fourier  
*Biogéochimie*  
Grenoble



*I. Gounand*  
Eawag / UZH  
*Ecologie théorique*  
Zürich (SU)

**Site**

*V. Bonhomme\**  
SoMaS / ISEM  
*Archéobotanique*  
Sheffield (GB)  
/ Montpellier  
+Regards

+ *G. Duché*  
Prestataire site



*M. Hossaert-McKey\**  
CEFE  
CNRS  
*Interactions Biotiques*  
Montpellier

## Colloques



*N. Hautekèete\**  
UMR EEP  
UST Lille 1  
*Ecologie évolutive*  
Lille



*C. Albert\**  
IMBE  
CNRS  
*Ecologie du paysage*  
Marseille



*D. Renault\**  
UMR EcoBio  
/GDR InvaBio  
Univ. Rennes  
*Ecologie invasive*  
Rennes



*G. Kunstler\**  
IRSTEA  
*Ecologie forestière*  
Grenoble

## Jeunes / Comm' / Réseaux soc.



*J. Clause\**  
Univ. Poitiers  
*Plantes - faune sol*  
*Agroécosystèmes*  
Paris



*S. Campagne\**  
IRSTEA  
*Services écosystémiques*  
Aix-en-Provence  
+Regards



*T. Poisot\**  
Poisot Lab  
*Interactions interspécifiques*  
Montréal (CA)



*F. Massol\**  
UMR EEP  
UST Lille 1  
*Ecologie évolutive*  
Lille

**Mécénat**

*G. Gigot*  
MNHN-SPN  
*Ecologie de la conservation*  
Paris

**Presse/Actualités**

*C. Sirami\**  
DYNAFOR  
INRA  
*Ecol. de la conservation*  
Toulouse



*T. Gauquelin\**  
IMBE  
Univ. Aix-Marseille  
*Ecol. fonctionnelle*  
Marseille

## Groupes thématiques



### Ecologie & Agriculture

*L. Abbadie*  
iEES-Paris  
*Ecol. intégrative*  
Paris



*S. Gaba*  
INRA Agroécologie  
*Ecologie*  
Dijon



### Etudes à long terme

*B. Doligez\**  
LBBE  
*Ecol. évolutive*  
Lyon



*E. Cam*  
UMR EDB  
*Ecol. évolutive*  
Toulouse



### Ecophysiologie des populations

*J.-L. Durand*  
INRA  
*Processus génétiques et  
écophysiologiques  
prairiaux*  
Lusignan



### Interactions durables

*T. Boulinier*  
CEFE CNRS  
*Interactions  
hôte-parasite*  
Montpellier



### Ecophysiologie animale

*Y. Voituron*  
LEHNA  
*Ecophysiologie  
animale*  
Lyon

## Regards



*B. Goussen\**  
Uni. York  
*Modélisation  
en écotoxicologie*  
York (GB)



*A. Teyssède*  
(MNHN)  
*Sciences de la  
conservation, médiation  
scientifique*  
Paris



*J.-D. Lebreton*  
CEFE, CNRS  
*Biomathématique*  
Montpellier



### Hérédité génétique/non-génétique

*B. Pujol*  
UMR EDB  
*Génétique  
quantitative  
évolutive*  
Toulouse



*E. Danchin*  
UMR EDB  
*Hérédité  
culturelle et  
épigénétique*  
Toulouse



### Spatialisation de l'Information en Environnement et des Relations Société - Milieu

*M. Fargette*  
Espace-Dev IRD  
*Relations Sociétés-Milieu*  
Montpellier



## SFE AWARDS

### SFE Grand Prix

Since 2009, the yearly « *SFE Grand Prix* » recognizes an ecologist for his or her lasting contribution to the content and influence of the discipline of ecology.



This year the “Grand Prix” recognizes the contribution of Pierre-Henri Gouyon, MHNN professor at the *Institut de Systématique, Évolution & Biodiversité*. Pierre-Henri explored the mechanisms of evolution by integrating genetics and ecology. His theoretical work spans the whole range of mechanisms of life’s key functions (sex, mutation, dispersal, death). His work incorporates drivers acting at the different levels of biological and ecological integration (genes, individuals, metapopulations, species) and approaches the evolutionary processes by taking into account chance, selection and historical contingencies. He also developed experimental studies on plants. His constant will to

put his thinking on evolution within the context of the complexity of biological interactions of genes organisms and their environment has influenced countless generations of ecologists. Pierre-Henri Gouyon has, in addition, put his deep understanding of the complexity of life at the service of a broader reflexion on the environmental challenges generated by the interaction of humans with the biosphere.

### SFE Prix Recherche

Since 2013, the yearly « *SFE Prix Recherche* » recognizes the originality and breadth of the contribution of an early to mid-career ecologist to the advancement of ecological science.



This year this award recognizes the work of Elisa Thébault, a CNRS junior scientist at the “*Institut d’Ecologie et des Sciences de l’Environnement-Paris*”. Elisa Thébault uses models to study the numerous challenges posed by the understanding of ecological interactions in networks: impacts of losses in biodiversity on ecosystem functioning, trophic and mutualistic interactions within complex networks, land use effects on trophic networks in soils and their associated ecosystem functions and services, analysis of network topologies (e.g. pollinator and herbivore networks). Elisa has, in particular, studied the links between biodiversity and stability. The diversity and breadth of her scientific contribu-

tions focus on what is at the heart of ecology: species interactions and their effects on ecosystem functioning.

## SFE Prix jeune chercheur



Fabien LAROCHE for his article "A Neutral Theory for Interpreting Correlations between Species and Genetic Diversity in Communities». 2015, American Naturalist. 185 (1).



Jonathan ROLLAND for his article "Faster speciation and reduced extinction in the tropics contribute to the mammalian latitudinal diversity gradient". 2014. Plos Biology. Vol. 12 (1): e1001775.

## Sfécologie 2016 Best poster by a young researcher award

The best students posters presented during poster sessions A and B will be rewarded.



## EXHIBITORS



### AnaEE-France

AnaEE (Analysis and Experimentation on Ecosystems - France) is a national research infrastructure for the study of continental ecosystems and their biodiversity



### BES - British Ecological Society

BES - Advancing ecology and making it count



### FRB - Foundation for Research on Biodiversity & CESAB

The Foundation for Research on Biodiversity is a platform for the different scientific players and stakeholders in society concerned with biodiversity



### SEOLANE

A station specialised in hosting scientific gathering and field work sessions in Ubaye



### French Ecological Society

The French Ecological Society is a learned society which aims to promote and associate the ecological disciplines and to strengthen their visibility in France.



### IMBE - Mediterranean Institute of marine and terrestrial Biodiversity and Ecology

IMBE is your host and is a research unit, supported by two universities (Aix-Marseille University and Avignon University) and two national research organisations (CNRS and IRD)





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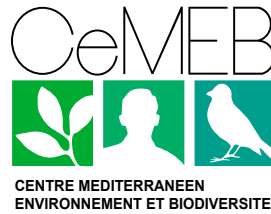
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# SFÉCOLOGIE 2018 – RENNES CONFERENCE ANNOUNCEMENT

Dear Colleagues,

We are delighted to invite you to Sfécologie 2018, International Conference on Ecological Sciences, the conference of the French Ecological Society (SFÉ) that will take place in Rennes in October 2018. The conference will be held at the historic Couvent des Jacobins (<http://centre-congres-rennes.fr/>), in the old part of the city of Rennes, ensuring convenient public transportation for the attendees.

Previous successful Sfécologie meetings have been held in Montpellier (2010), Lille (2014), and Marseille (2016). This meeting will promote and support exchanges around the latest developments in research and the most exciting challenges raised from the different disciplines of ecology. Contributions will be welcome on any aspect of ecology, including focused empirical and theoretical ecological studies, to engage and strengthen fruitful collaboration and intellectual exchanges.

This 4-days conference will include a full range of academic sessions, plenary lectures, social events and field trips within and beyond Rennes.

The organizing committee

